FINAL REPORT

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SIMULATION MODELS FOR DEVELOPMENT OF OPTIMAL MATERIAL HANDLING, STORAGE AND DISTRIBUTION, PHASE I

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EXECUTIVE SUMMARY

The initial phase of a two part study to develop a simulation procedure for shipyard material handling operations is described. This phase involved investigation of software alternatives available for simulation, optimization, material handling and data base management. Additionally, material classifications, equipment choice figures of merit and a material handling equipment data base have been developed. The report presents a discussion of the software investigation and presents choices and rationales to be used in the second phase. Additionally, the format and typical entries in the material handling data base are presented. A detailed discussion of the final figure of merit equation developed and to be used is also included. A detailed description of the simulation and optimization model is also presented. Finally, the results of a feasibility study concerning the potential for successful simulation of the problem is presented.

Three data bases are required in order to analyze the material handling choices. These describe (1) the material handling equipment available, (2) the material to be moved, including time and location it is needed for the succeeding work operation, and (3) the facility layout, indicating the work stations to and from which material must be moved. The data bases will provide input data to the simulation model. Therefore, they must contain information in sufficient detail to permit valid analyses to be conducted. They should not, however, contain more detail than can be effectively used in the simulation.

The material handling equipment data base must contain information that will enable two major functions to be accomplished. First, the feasibility of using a particular piece of material handling equipment for a given move must be verified. This is a necessary condition for further consideration of the piece of equipment. The feasibility verification requires a determination that the equipment is capable of handling the weight, size and route required for It also implies that the equipment is not the move. currently being used for another move. The second function invovles making an optimum choice of available equipment based on a computation of the cost of using a particular piece of equipment. Since there are likely to be many possible choices, the simulation model should be run making different choices, so that these options can be compared after evaluating total project costs. The data categories for equipment must enable the model to determine these characteristics.

These files are used to develop a new file, called the potential equipment list. This file is continually updated for each move and over time during the simulation. This

file also identifies the piece of equipment by name. It then has a capacity code to indicate the number of items within a material classification that can be handled by this piece of equipment. A columnn, updated throughout the execution of the simulation indicates the status of the equipment, including available, in use, or down. equipment, including available, in abo, of dominion column indicates the location status, i.e. where a piece of This equipment is located in the facility at a given time. This information is also updated during the simulation. Finally, a series of columns indicate the cost categories including labor, energy, maintenance, down time, purchase, installation and debt service costs. The last column is the installation and debt service costs. total cost associated with the use of a given piece of equipment up to the current time in the project (for a given Note that while most of the data simulation run). categories are constants, some are variables that are updated during the simulation and some may be stochastic, i.e. represented by a distribution. These variables are evaluated using typical random number generators during the running of the simulation.

Since the number and variation of individual items to be moved during a shipbuilding or major ship repair/overhaul project is extensive, a means of limiting the size of this data base to manageable proportions is required. In order to accomplish this, a material classification scheme is used. This scheme employs fifteen major classes, with the ability to subdivide the classes into sub-categories based on the specifics of the material handling problem. The classes include:

- 1. Structural raw materials
- 2. Outfitting raw materials
- 3. Pipe and tubing fittings and valves
- 4. Electrical system components
- 5. Hull and superstructure components
- 6. Fastening materials
- 7. Motors and pumps
- 8. Major equipment
- 9. Sheet metal components
- 10. Miscellaneous materials
- 11. Sub-assembilies (structural)
- 12. Outfit units
- 13. sub-blocks
- 14. Blocks
- 15. Grand blocks

The facility layout data base is a direct function of the simulation software to be used. Most manufacturing simulation software packages include a simple structure for input of the facility layout. Consequently, no specific recommendations on the format of the layout input is made in this phase of the research. Following development of a case

study of the material handling simulation (phase II of the research), the specifics of inputting the layout will be explained.

The choice of software to be used in developing the data bases was made based on two primary factors. These are the ability of the data base software to perform the necessary functions, and the transferability of the software between shipyards. Consequently, a relatively powerful data base handling software package is required. Additionally, it must be a system that is readily available or already in common use. One such software system that satisfies these requirements is LOTUS 1-2-3.

LOTUS 1-2-3 offers a typical spreadsheet approach to data base management. The software is readily available for PC operation on most commonly used machines. It provides ample space for the major data bases required, offering 256 columns and 8192 rows for data entry. The information required per piece of material handling equipment is considerably less than the 256 column capacity. Similarly, shipyards are not likely to have in excess of 8192 individual pieces of material handling equipment to be managed and scheduled. The spreadsheet format is one with which most computer users are familiar. It is also quite powerful, providing considerable computational and sorting capability.

There are many manufacturing simulation software packages available for consideration for use in optimizing material handling. More than 50 such software packages are currently on the market. Consequently, choices cannot be made based on trials of these various packages. Again, simple criteria must be applied and choices made. The major criteria are flexibility, capability, availability and relative cost. Use of packages that are commonly used and readily available is prudent. Given this need to make a choice without the benefit of comparative testing, this recommendation is based on availability and common use. Most simulation packages that have been developed for manufacturing application using PCs are capable of dealing with the problem to be addressed in this research. Of the packages available, SLAM II, perhaps with the graphical add on package TESS is recommended. This software is commonly available, has been used in numerous applications and is backed by an on-going support service. It is relatively easy to use and has both the power and flexibility needed to develop a material handling optimization simulation program for a shipyard. Should an individual shipyard have another standard simulation package available, switching from SLAM II should be relatively easy using the model developed in this and the second phase of the research.

The actual material handling simulation and optimization model will include a number of parts. These can be subdivided into optimization and simulation. The optimization is based on the development of a "figure of merit" or total cost formulation. Using this formula, applied to each move and the associated piece of material handling equipment used, a total cost of material handling equipment choices can be determined for a given plan. total cost of various plans can then be compared. The cost formula computes cost in four basic categories. include the labor cost associated with the use of a given piece of material handling equipment, the energy cost, the cost associated with "emergency" or unanticipated breakdowns of the equipment, and the cost of having the equipment available, including purchase, depreciation, scheduled maintenance, etc. These costs are combined on either an hourly use rate or over a total projected project duration and then summed for the project.

The simulation is run to provide a means of evaluating alternative choices of material handling equipment usage and scheduling. Note that in the total cost equation, labor and energy costs for a particular piece of equipment and a specific move must include unloaded moves (if required) to position the equipment where it is needed. The simulation model will account for this requirement. Additionally, capital costs (purchase and installation), must be based on present value computations.

The simulation is used to provide and compare material handling equipment choices and schedules. Initially, the overall project schedule must be defined by work and In effect, a combined graph of work material category. control parameter versus time is required for each work station pair, i.e. source and destination, involved in material movement. This will be nearly every work station. The major exceptions will be work stations that are directly linked to succeeding or preceding work stations, such as a panel line. Here there is no material handling choice since there is a direct connection and most likely dedicated equipment for material handling. The predominant parameter, as in product oriented scheduling, is weight. where other parameters are used? such as number of pipe piece connections, a parameter to relate the work schedule to the material handling schedule is required. The material classification categories previously defined will be used here.

Given this material handling schedule to support the master production schedule, the simulation may begin. The inputs to the simulation from the material handling schedule are the feasible material handling equipment for each move, the distance of each move, and the handling weights per material category for each move. Any piece of material

handling equipment that is in the feasible data file may be ready to be used at the beginning of a working period, or only for some portion of that period. The equipment may need to be moved empty to the required work station, and it may be used for a single move, or for a series of moves in sequence. Similarly, materials to be moved may be ready and prepared to be moved at a given point in time, or a distribution of probability of it being ready can be used.

The simulation will produce outputs which define the piece of material handling equipment utilized for each move, the utilization time for each piece of equipment, and any delays associated with either lack of availability of material handling equipment or materials to be moved. Based on these outputs, the total cost for the project of that option can be computed. A series of simulation runs can be compared to choose a least total cost material handling equipment utilization schedule.

A significant consideration in this proposed simulation is the method of choosing a piece of equipment for a specific move. Two suggestions are presented and will be incorporated in the final model; First, manual (possibly interactive) selection is recommended. In effect, this is the way moves are currently scheduled in most shipyards. The manager of the department responsible for providing material handling equipment commonly uses some combination of a schedule and immediate requests to make short term decisions and assignments. The model should therefore permit this expertise to be applied to provide a starting point. The simulation can then be run to evaluate this proposal and to generate similar but alternative approaches. The second approach is to automate these decisions based on a set of heuristics. The model will employ such a set of heuristics, but in actual use, each manager should have the opportunity to adjust the heuristics to suit an individual shipyard's needs and capabilities. These two approaches can be combined, either by providing interactive override of heuristic choices by the manager, or by using the heuristics to develop alternate schedules based on the initially input material handling equipment utilization schedule.

There are two primary issues of feasibility. The first involves the size and therefore running time of the model. The use of material categories and the scheduling parameters is a means of limiting the size of the simulation model. There are fifteen material categories, including the ten for specific individual material items, plus the five assembly categories. There are likely to be between 15 and 30 work station locations required to model the production process. This size model should be well within the capabilities of the PC based version of SLAM II recommended for use. Additionally, the material handling equipment data base should not be difficult to develop or handle. Similarly,

the project schedule, if appropriately developed using the schedule parameter approach should also not be too large or cumbersome to handle. Clearly, the movement of every single item is not intended to be incorporated in the model. Rather, preplanned moves of equipment, manufactured parts and assemblies between work stations only are evaluated by Thus the large frame material handling issues this model. Subject to project specific needs, however, are involved. the model can be used to evaluate "critical" moves no matter what category (including size, weight, etc.) material is Therefore, preplanning of moves is a prerequisite involved. The simulation model should be an to the use of the model. effective tool to evaluate changes from the plan and to alter the material handling schedule to deal with such

The second feasibility issue is more difficult to analyze prior to actually attempting to develop the model. This involves the heuristics development for making individual equipment choices. Heuristics-can be extremely difficult to This seems to become a more significant problem as develop. they more closely model the actual decision process employed In developing the by an experienced decision-maker. simulation model, less meaningful but simple heuristics can be a useful starting point. The accuracy (utility) of the heuristics can then be increased incrementally until they The accuracy (utility) of the are either satisfactory or the efficiency of the model begins to deteriorate significantly. While there is no assurance that such a set of heuristics can be obtained, the increasing success of such simulation modeling in other manufacturing environments provides some optimism.

This report describes the results of the first phase of a two phase research project concerning the use of simulation to aid in the choice of material handling equipment for use Detailed in a shipbuilding or ship repair/overhaul project. is the outcome of attempts to carefully formulate the problem, both to indicate the data required and to evaluate the feasibility of producing software that would be useful to shipyard material handling department managers. only completion of phase II of the project can definitely establish the viability of simulation to solve this problem, the author is encouraged by these results. Additionally, while the size and scope of shippard projects represents a significant problem in utilizing simulation, it appears possible to handle a problem of this size, if it is formulated in the manner recommended. A key factor, as in formulated in the manner recommended. any simulation, is the accuracy of input data. In particular, schedule and work progress parameter data must be valid in order to produce valid simulation results. Despite this potential difficulty, the use of simulation shows considerable promise as a tool to help reduce costs and improve planning of material handling operations in a shipyard.

The simulation model that has been formulated, and the data base structures are a significant initial step. This effort is the part of the process that requires innovation and abstraction. Since this phase of the research has been successfully completed, the remaining steps, while difficult, are less innovative. Therefore, there is a high likelihood that phase II would produce a workable product. Additionally, as described previously, a working simulation model of a shipbuilding or repair/overhaul project could be a powerful tool in process improvement.

There are some outputs of this phase of the work that can be useful immediately. The material classification system can help planners reduce the scope of other common shipyard tasks. It can provide a framework for material handling planners to address schedules without employing simulation. Secondly, the equipment manufacturers data base can be useful to maintenance and procurement people. Finally, the cost formulation can also be a helpful tool to material handling planners, aiding their thought process in making manual assignments, as is current practice. Naturally, the most significant potential benefits of this work require completion of phase II of the research.

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I. INTRODUCTION

Effective management and control of modern productoriented shipbuilding systems is based on control and
monitoring of material. Work packages are organized around
pallets, which are conceptual and physical groupings used
for production scheduling and control. The principles of
material management in shipbuilding have been described in a
series of NSRP publications. Numerous choices of material
ordering, fabrication, storage, marshaling and handling
systems are possible. To date, however, the details of how
to choose and apply these principles based on the specifics
of a given shipyard's operations, building strategy, layout
and work organization have not been thoroughly explored.
Optimal selection from among the choices available can
significantly impact overall productivity of the
shipbuilding process.

Simulation modeling is a tool that can be effectively employed to optimize choices in a complex decision making environment. Specifically, for a given objective funtion, such as total cost, a minimum can be obtained by simulating the results of a series of possible solutions. In this case, the desired solution is a choice of material handling equipment to be used to move particular items from one work station to another. By coupling a simulation of the entire series of moves associated with a shipbuilding or ship repair project, with the computation of the total cost associated with the moves, a least cost assignment of material handling equipment to specific moves can be accomplished. The research reported on here involved the formulation of the procedures and necessary data bases with which to generate a minimum total cost for planned material movement.

This research is to be performed in two phases. This report is for phase I. Phase I was primarily concerned with developing the conceptual framework for employing simulation as the tool for improving material handling operations. This framework includes description and formulation of the data bases necessary for solving the problem, choosing software to be recommended for use, developing material classes to reduce the problem to a manageable size, developing an optimization formula, developing a process flow chart for the total simulation and optimization procedure, and evaluating the feasibility of success should phase II be performed.

TT. SIMULATION

Introduction

computer simulation methods have been available since the early 1960's and are now commonly used in management science [1]. These methods are being used to study such broad topics as economic systems, business systems, communication systems, biological systems, transportation systems, and many others. The wide range uses of computer simulation methods result from their many advantages. Simulation methods can be adopted when a complete mathematics formulation of the problem does not exist, or when analytical methods of solving a mathematical model have not been developed. Simulation may be the only possible method to test systems upon which experimentation in real situations can not be performed. After a simulation program has been developed, it can be used as an experimental laboratory. This is extremely useful when tests are expensive or destructive in the real world.

Because of the wide applicability of simulation and its potential uses, it may be helpful to present a brief introduction to simulation in general. First, the knowledge of systems, their classifications, and the system models are discussed. To illustrate the basic concepts of simulation, a bank teller example is presented. Then, some simulation modeling methods are discussed. Finally the general procedure of simulation is presented.

Systems

The term system is used in a wide variety of ways. It's definition must be both broad and concise enough to cover the many uses in the world. According to Gordon [2], a system is defined as an aggregation or assemblage of objects combined in some regular interaction or interdependence.

As an example of a conceptually simple system, consider the discharge of a river after a rain. After rain in the area of the river, the discharge of the river will increase. sometime later, the discharge will decrease. The discharge is a function of the rainfall and time.

As a second example, consider a factory that produces and assembles parts into a product. The system is composed of a purchasing department, a fabrication department, an assembly department, and a shipping department. The purchasing department provides a supply of raw materials and the shipping department sends off the finished products.

In both of the systems, there are certain distinct objects, each of which possesses properties of interest. There are also certain interactions in the system that cause

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changes. The term entity will be used to denote an object of interest in a system. The properties of an entity are called attributes. For a given entity, there might be many attributes to describe it's properties. An activity is a process which causes changes in the system. The term state of the system describes all the entities, attributes, and activities as they exist at one point in time.

In the description of the river system, the entities of the system are the water in the river and in the precipitation. Their attributes are such factors as the speed of the river and the amount of rainfall. The activities are the flow of the river and the descending of the rain. In the factory system, the entities are the materials, the parts, the products, and the departments. The activities are the manufacturing processes of the departments. The attributes are such factors as the quality and quantity of the products, types of parts, or the machines in a department.

Table 1 presents examples of what might be considered to be entities, attributes, and activities for a number of other systems. If the bus transportation in Seattle is considered as a transportation system, the individual bus is regarded as an entity having as attributes speed and distance traveled. Among the activities is the driving of a bus. In the case of a barber shop, the customers of the shop are entities with the styles of their hair cuts as attributes. The activity is the hair cut process. In the case of a bank system, the customers of the bank are entities. Their attributes are the account balance and the credit status. The service process is a typical activity. Other examples are listed in Table 1.

The representations of the entities, attributes, and activities are not unique for a system. The representations depend upon the purpose of the system description. Based on the purpose of the system description, various aspects of the system will be of interest and will determine what needs to be identified. An example of a shipbuilding process can describe the concept well. If the whole shipbuilding process is considered, the materials, the equipment, the labor, and the processing departments might be entities. The attributes could represent such properties as labor rates, equipment quality, and the quantity of the materials. The activities could be shipbuilding processing procedures. However, if only the material handling process in a shipyard is considered, the entities can be restricted to only the materials, work stations and equipment. The same concept can be adopted when defining the attributes and activities.

In any system, values are used to represent the attributes qualitatively or quantitatively. The values of the attributes are called states. The analysis of a system

Table 1 Examples of Systems

systems	Entities	Attributes	Activities
Transportation	Buses	Speed Distance	Driving
Barber's Shop	customers	Style	Hair Cut
Bank	customers	Balance Credit	Service
Supermarket	customers	Shipping List	Checking out
Maunfactuing	Materials	Quantity Quality	Processing

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involves a study of its state changes as time elapses. This requires an understanding of the classifications of the systems.

One important distinction between systems is continuous and discrete systems. If the changes of the system state are predominantly smooth, the system is called a continuous system. If the changes of the system state are predominantly discontinuous, the system is called a discrete system. The river discharge system used as an example before is a continuous system, because the change of the discharge is predominantly smooth. The example of the factory system is a discrete system because the changes of the state, for example, the receiving of materials or the completion of a product, occur at specific points in time.

Few systems are completely continuous or discrete. Taking the factory system as an example again, machining proceeds continuously, even though the start and finish of a job are discrete changes. Because, in the factory system, the discrete type of change predominates, the system can usually be classified as being discrete.

Generally, a continuous system will be described in the form of continuous equations which represent how the system attributes change with time. On the other hand, a discrete system is described with the events producing changes in the state of the system. However the type of system is not necessarily coincident with the description. The study of a continuous system may sometimes be simplified by considering the changes to occur as a series of discrete steps. For example, the discharge of the river system can be defined as changes at a series of points in time. In addition, the discrete system usually is described simply by considering the changes of the system to occur continuously. The output of the factory may be described as a continuous variable over the time period of interest. Therefore, the description of the system does not coincide with the nature of the system, and the description must be concerned with the purpose of the study of the system.

Models of Systems

System studies are generally conducted with a model of the system. The objective of many system studies is to predict how a system will perform before it is built or to improve the operation of an existing system. It is not feasible to experiment with a system while it is in the hypothetical form. Although sometimes a number of prototypes of the system can be used and tested, these can be very expensive and time consuming. Even with an existing system, in most situations, it is impractical or impossible to experiment with the actual system. For example, it is not practical to test a whole material handling system of a

shipyard in order to know the economic material handling procedure and the corresponding handling equipment combinations. In fact, system studies are performed with a model of the system. A model of a system is a simplification and a substitution of the system.

The model contains the body of information about a system gathered for the purpose of studying the system. Since the structure of the model is based on the information gathered for the purpose of the studies, there is no unique model of a system. For example, if the material handling process for a shipbuilding system is to be studied, the gathered information of the system need only include the information which is relative to the handling process in the system.

Developing a model of a system may include two tasks: (1) establishing the model structure, and (2) supplying the data. Establishing the structure refers to the determination of the system boundaries and the identification of the system entities, attributes, and activities. The data to be provided are the values of the attributes and activities. The two tasks should be conducted together because they are interrelated to each other. Assumptions about the system are used to direct the data gathering, and the data confirm or refute the assumptions.

There are many ways to classify models [3]. Models can be classified as physical models, such as a scaled-down replica of a system, schematic models that include diagrams, maps, and charts, and symbolic models, of which those based on mathematics or computer code are the most common.

There are some other classifications of models. Mathematical models can be divided into analytical and numerical models. In an analytical model, a solution can be deduced from study of its mathematical representation. In a numerical model, a solution can be obtained only for specified numerical values of the parameters of the model by numerical methods.

Models can also be classified as static and dynamic models. If the models either omit a recognition of time or describe the state at a moment in time, they are static models. By contrast to static models, dynamic models acknowledge the passage of time.

Another distinction is deterministic versus stochastic models. In deterministic models, all the entities have a fixed mathematical or logical relationship to each other. A solution of the model can be determined by the relationships. In a stochastic model, at least a part of the variation exists randomly, as in nature.

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As computer technology developed, more and more models have been built to use digital computer simulations. These kinds of models are called simulation models. A simulation model is a mathematical and logical representation of a system which can be simulated in an experimental fashion on a digital computer [4].

Simulation models assume that a system can be described in terms that are acceptable to a computing system. If each combination of the variable values represents a unique state or condition in the system, the movement of the system from state to state then can be simulated by manipulating the variable values.

A simulation model is a laboratory version of a system. Experiments can be performed by running the model. Thus inferences about the system can be obtained "without building them, if they are only proposed systems; without disturbing them, if they are operating systems that are costly or unsafe to experiment with; or without destroying them, if the object of an experiment is to determine their limits of stress" [4].

A Bank Teller System Simulation

To illustrate the concept of simulation, a simple bank teller example is presented. Customers arrive at the bank and wait for service by the teller if the teller is busy. The waiting customers are in a single queue (or line) in front of the teller. The teller severs one customer at a time. After being served, the customer departs the system. Table 2 presents the time of the customer arrivals and the time of service for each customer. The question is to determine the percent of time the teller is idle and the average time a customer spends at the bank.

Since the state of the system is changed over time, the state of the system must be defined. For this example, the state of the system can be defined by the status of the teller (busy or idle) and by the number of the customers at The state of the system is changed when a the bank. customer arrives at the bank or departs from the bank after being served. Table 3 presents the time for each customer in the queue and at the bank. The average time in the queue is 2.66 minutes and the average time in the bank is 5.9 minutes for each customer. Table 4 presents the eventoriented description of the bank teller simulation. event time is the time of arrival and departure of the In Table 4, the events are listed in chronological order. From this table, it is indicated that the average number of customers at the bank in the first 40 minutes is 1.4775 and the teller is idle 19 percent of the time.

Table 2 Customer Arrival and Service Time

Customer Number	Time of Arrival (Minutes)	Service Time (Minutes)
1	3.1	3.8
2	10.8	3.4
3	14.1	4.5
4	14.8	4.7
5	17.8	2.2
6	20.0	2.1
7	21.5	3.0
8	26.5	2.7
9	32.4	2.6
10	36.5	3.5

Table 3 Manual Simulation of Bank Teller

Customer Number (1)	Arrival Time (2)	Start Service Time (3)	Departure Time (4)	Time in queue (5)=(3)-(2)	Time in Bank (6)=(4)-(2)
1	3.1	3.1	6.9	0.0	3.8
2	10.8	10.5	14.2	0.0	3.4
3	14.1	14.2	18.7	0.1	4.6
4	14.8	18.7	23.4	3.9	8.6
5	17.8	23.4	25.6	5.6	7.8
6	20.0	25.6	27.7	5.6	7.7
7	21.5	27.7	30.7	6.2	9.2
8	26.5	30.7	33.4	4.2	6.9
9	32.4	33.4	36.0	1.0	3.6
10	36.5	36.5	40.0	0.0	3.5

Table 4 Event-Oriented Description of Bank Teller Simulation

Event Time	Customer Number	Event Type	Number in Queue	Number in Bank	Teller Status	Teller Idle Time
0.0	-	Start	0	0	Idle	-
3.1	1	Arrival	0	1	Busy	3.1
6.9	1	Departure	0	0	Idle	
10.8	2	Arrival	0	1	Busy	3.9
14.1	3	Arrival	1	2	Busy	
14.2	2	Departure	0	1	Busy	
14.8	4	Arrival	1	2	Busy	
17.8	5	Arrival	2	3	Busy	
18.7	3	Departure	1	2	Busy	
20.0	6	Arrival	Arrival 2 3		Busy	
21.5	7	Arrival	3	4	, Busy	
23.4	4	Departure	2	3	Busy	
25.6	5	Departure	1	2	Busy	
26.5	8	Arrival	2	3	Busy	
27.7	6	Departure	1	2	Busy	
30.7	7	Departure	0	1	Busy	
32.4	9	Arrival	1	2	Busy	
33.4	8	Departure	0	1	Busy	
36.0	9	Departure	0	0	Idle	
36.5	10	Arrival	0	1	Busy	0.5
40.0	10	departure	0	0	Idle	

This example has illustrated several important concepts. At any instant in simulated time, the model is in a particular state. A state may change only at the event time. The state changes can be viewed from two perspectives: the customer's view and the teller's or the bank's view.

Simulation Modeling

There are two major tries of models that can be developed and used in simulation: (1) discrete simulation modeling and (2) continuous simulation modeling. For discrete simulation, the state of the system can change only at event time. A complete dynamic process of the system over time can be simulated by advancing simulated time from one event to the next. This time advance approach, timing mechanism, is used in most discrete simulation languages [4].

A discrete simulation model can be formulated by three different orientations, usually called world views. They are event orientation, defining the changes in state that occur at each event time; activity scanning orientation, describing the activities in which the entities in the system engage; and process orientation, describing the process through which the entities in the system flow.

In the event oriented world view, a system is modeled by determining the events that can change the state of the system and by developing the logic associated with each event time. The system is simulated by executing the logic associated with each event in a time ordered sequence.

As an example of the concept of the event oriented world view, consider the bank teller system again, which was an example described before. A customer arriving at the system may wait for service in a queue or is served immediately if the teller is idle. The state of the system is defined by the status of the teller and the number of waiting customers. The state is changed only at the point in time when a customer arrives at or departs from the system. The events of arrival and departure can be used to completely describe the dynamic structure of the system. The following statement outlines the logic and the associated arrival event logic [4]:

"SCHEDULE NEXT ARRIVAL
IF THE TELLER IS BUSY: NUMBER WAITING = NUMBER
WAITING + 1; RETURN
IF THE TELLER IS IDLE: MAKE THE TELLER IS BUSY;
SCHEDULE AN END OF SERVICE EVENT AT CURRENT TIME
+ SERVICE TIME; RETURN
END"

The logic associated with the departure (end of Service) event is outlined as follows:

"IF THE NUMBER WAITING IS GREATER THAN O:
 NUMBER WAITING = NUMBER WAITING - 1;
 SCHEDULE END OF SERVICE EVENT AT CURRENT
 TIME + SERVICE TIME; RETURN
 IF THE NUMBER WAITING IS O: MAKE THE TELLER IDLE;
 RETURN
 END"

A calendar of events is required for an event oriented simulation. The calendar initially contains the notice about the first arrival event. As the simulation proceeds, additional arrival events and end of service events will be scheduled onto the calendar according to the logic associated with the events. The events will be executed in a time-ordered sequence, and the simulation time has been advanced from one event to the next.

In the activity scanning oriented world view, the activities in which the entities engage are described, and the conditions which cause an activity to start or end are initiated from the conditions specified for the activity. As the simulated time is advanced, the conditions of either starting or ending an activity are scanned. The appropriate action for the activity is taken if the prescribed conditions are satisfied. Because it needs scanning for the entire set of activities at each time advance, the approach is relatively inefficient compared to the event-oriented world view, but this approach is particularly well suited if an activity duration is indefinite and is determined by the system state of satisfying a prescribed condition.

In the process-oriented world view, the simulation is oriented to the combined features of both the event orientation and the activity scanning orientation. As the entities move through a process, a sequence of events are automatically executed by the simulation language. A set of statements is used to model the flow of the entities through the systems. The following set of statements describes the process for the bank teller example [4]:

"CREATE ARRIVAL ENTITIES EVERY T TIME UNITS; AWAIT THE TELLER; ADVANCE THE TIME BY THE SERVICE TIME; FREE THE TELLER; TERMINATE THE ENTITY;"

Although each of the three above world views for a discrete model can be coded by using general purpose computer languages, a considerable amount of programming effort will be required. To reduce this difficulty, simulation languages have been developed to provide a simple

tool to code the model. GASP, SIMSCRIPT and SLAM II are the most commonly used languages in discrete event models. GPSS, SIMULA, Q-GERT, and SLAM II are commonly used process oriented languages.

In a continuous simulation model, the dependent variables, which represent the state of the system, are changed continuously over time. Continuous models are frequently written in terms of the difference of differential equations. These equations can be solved by digital computers using numerical analysis. A set of standards for continuous system-simulation languages (CSSL) has been developed by a committee of the Society of Computer Simulation.

For combined discrete-continuous models, the dependent variables of the system state may change both discretely and continuously. GASP IV, SMOOTH, SAINT, SIMSCRIPT, CROPS, and SLAM II are the languages that are capable of coding the combined simulation models.

Simulation Process

According to Shannon [5], there are ten steps for the simulation process. They are:

- 1. Problem formulation. The statement of the problem and the objective for the problem solving.
- 2. Model Building. The model abstracted from the system of interest.
- 3. Data acquisition. The process of data collection, identification, and specification.
- 4. Model translation. The coding of the model for computer processing.
- 5. Verification. The process of establishing that the computer program executes as it is designed.
- 6. Validation. The process of establishing that the simulation model is as accurate as the real system.
- 7. Strategic and tactical planning. The process of establishing the experimental conditions for the simulation runs.
- 8. Experimentation. The process of the simulation program execution to generate the values of the dependent variables.
- 9. Analysis of results. The process of analyzing the outputs and developing inferences and recommendations.

10. Implementation and documentation. The process of applying the results from the simulation and documenting the model and its use.

The first task in a simulation is to develop the problem statement. To find an acceptable solution to a problem, it must be known what the problem is. However, a clear and concise problem statement and the corresponding objectives are not always easy to develop. In many cases, management may not identify its own problem correctly. It recognizes that there is a problem, but what is the true problem is not identified. Therefore the system should be studied. In the study, a definition of the system must be produced first. Then the study within the defined system will be conducted. As additional insights into the problem are obtained and additional questions become of interest, the problem definition appears more clearly.

The task of formulating a model starts just after the accomplishment of the problem formulation. Formulating a model is to abstract the necessary essence of the system. In order to do this, the structure and the operating rules of the system must be fully understood. The model must define the elements and the characteristics of the system. The model must also describe the way in which the elements of the system interact to cause changes to the state of the system over time. The model should be easily understood, but sufficiently complex to represent the necessary characteristics of interest of the system. To simplify the model, a set of assumptions of the system will be developed during modeling.

As the development of the model progresses, the independent variables of the model require data input. The collection of the data can involve considerable time and cost. Usually, the data input values are initially hypothesized or based on preliminary analysis. During the data acquisition process, formidable problems may occur. It may be difficult or even impossible to quantify or measure certain variables that are important to the behavior of the system. The data and the information needed may not be available, or perhaps not exist in the form required. In these situations, simplifying assumptions should be made, but they must be appropriate to the system in nature.

Once the model has been developed and the initial estimates of the input variables have been established, the next step is to transfer the model into a computer acceptable form. The simulation model can be programmed by using general purpose languages. General purpose languages such as FORTRAN, COBOL, BASIC, and C are designed to solve a broad class of problems. Special purpose languages, on the other hand, are designed to satisfy or solve a partical class or type of problem. Since the late 1950's when the

special purpose simulation languages began to be developed, significant improvement on the special purpose languages has been achieved. The simulation languages have many advantages for simulation. In addition to the savings of programming time, the simulation languages provide a brief, direct vehicle for expressing the concepts arising in a simulation study. The simulation language also can automatically generate certain data needed in simulation runs.

After the model has been coded in a computer language, the next step is verification. The verification task is to check the simulation programming and to ensure that the model is coded correctly. For a simple model, manual checking of calculations is a typical method of verification, but for a complex model, a series of debugging steps is required for a sequence of sections.

Validation is the process of establishing that a designed accuracy or correspondence exists between the simulation model and the real system. To validate a model means to develop an acceptable level of confidence that inferences drawn from the performance of the model are correct and applicable to the real world system. As this level is achieved, comparison tests should be conducted between model results and system results.

The process of strategic and tactical planning is to establish the experimental conditions for the simulation runs. The strategic Planning process is composed of developing an efficient experimental design to either explain the relationship between the simulation response and the input variables, or to find the combination of values for the input variables which either maximize or minimize the simulation response. During the process, a sensitivity analysis may proceed. The sensitivity analysis usually consists of systematically varying the values of the parameters or the input variables over some range of interest and observing the effect upon the model's response. The information drawn from the sensitivity analysis will be In contrast, very helpful when management makes decisions. tactical planning is concerned with how each of the simulation runs is conducted to find the most information from the data. Experimental design of the simulation run is a typical tool for planning the simulation runs. Starting conditions and variance reduction methods are the two specific issues for the simulation runs in tactical planning.

Experimentation and result analysis refer to executing the simulation program, gathering the outputs, and analyzing the results. The simulation program is used as an experimental laboratory. The program is executed according to the experimental design accomplished at the previous

step. The execution of the simulation and the data analysis may indicate the need for further work: changing the experimental design to explore interesting results, even reformulation of the problem [6]. Interpretation of the results of the analysis is required at the and of the process. The presentation of the results should be easily understandable. A concise and clear presentation will be helpful for management to make decisions.

The last step for a simulation process is implementation and documentation. The implementation is directly tied to the effectiveness of the simulation report. If the report presents the recommendations which are acceptable to management, the implementation should be easy. This indicates that both the model builder and the model user need to work closely together and they both need to understand the model and its use. If the model formulation and the assumptions are not effectively communicated, then the recommendations are hard to implemental. Reformulation of the problem and repeated evaluation may be involved. Finally, a well organized document is prepared to the user. A good documentation results in the maintenance of a computer coded program of a simulation model.

III. DATA BASE DEVELOPMENT

Initial consideration of the model to be employed to analyze the choice of material handling equipment was conducted based on an analysis of simulation as a general tool and on discussions with appropriate shipyard personnel. Since it was clear that data requirements and availability would be a key part of the ultimate model chosen, initial efforts were aimed at identifying and collecting the necessary data. It quickly became apparent that the data reqluired included the material handling equipment, the material to be moved and the facility, i.e. the locations to and from which material was to be moved.

Consequently, three data bases are required in order to analyze the material handling choices. These describe (1) the material handling equipment available, (2) the material to be moved, including time and location it is needed for the succeeding work operation, and (3) the facility layout, indicating the work stations to and from which material must be moved. The data bases will provide input data to the simulation model. Therefore, they must contain information in sufficient detail to permit valid analyses to be conducted. They should not, however, contain more detail than can be effectively used in the simulation. The actual flow of the simulation model proposed will be presented later in the report. However, there are certain prerequisites associated with each of these data bases.

Material Handling Equipment Data Base

The material handling equipment data base must contain information that will enable two major functions to be accomplished. First, the feasibility of using a particular piece of material handling equipment for a given move must be verified. This is a necessary condition for further The feasibility consideration of the piece of equipment. verification requires a determination that the equipment is capable of handling the weight, size and route required for It also implies that the equipment is not currently being used for another move. The second function invovles making an optimum choice of available equipment based on a computation of the cost of using a particular piece of equipment. Since there are likely to be many piece of equipment. possible choices, the simulation model should be run making different choices, so that these options can be compared after evaluating total project costs. The data categories for equipment must enable the model to determine these characteristics. Figures 1-5 show the heading categories These files are for the files that comprise this data base. for specific types of material handling equipment, including, bridge/gantry cranes, mobile cranes/crane trucks, jib cranes, transporters/trucks/rail cars, and forklifts. The first two columns are the individual equipment model and

Medel	Name	Heximum Hoving Capacity (ton)	Bridge Span (ft)	Noving Distance (ft)	Under Bridge (ft)	Travel Speed Loeded (mph)	Travel Speed Espty (mph)	Energy Type	Manu Code No	Labor Cost (8/hr)	Energy Cost (S/hr)	Heint Cost \$	Emergency Down Purchase Cost (\$) Cost (\$)
TDC	TOC1	3.00	25.00					Ε	1				/
(top	TDC2	3.00	45.00					E	1				
running)	TD13	3.00	60.00					E	1				
	TDC4	5.00	25.00					E	1				
	DIC	5.00	45.00					E	1				
	TDC6	5.00	60.00					E	1				·/
	TDC7	7.50	25.00					Ε	1				
	TDCS	7.50	45.00					E	1				
	TDC9	7.50	60.00					E	1				
	TDC10	10.00	25.00					Ε	1			/	/
	TDC11	10.00	45.00)				E	1				
	TDC12	10.00	60.00	ı				E	1				
	TDC13	15.00	25.00	1				E	1				
	TDC14	15.00	45.00					E	1		,	/	
	TDC15	15.00	60.00					E	1				
usc	ussi	1.00	12.50)				Ε	1				
(under	USG2	1.00	30.00					E	1				
ruming)	USG3	1.00	40.00					E	1				
	USCA	2.00						E	1				
	uses	2.00						E	1				
	USCA	2.00	40.00)				E	1				
•••••	•••••	•••••	•••••	•••••	*******	•••••	••••••	•••••	(,	Install Cost (\$)	Cost (S		•

Figure 1 Bridge/Gantry Cranes

Model	Name	Capecity (ton)	Under Boom (ft)		Haximum Height (ft)	Rotation (degree)	Travel Speed Loaded (mph)	Travel Speed Empty (mph)	Energy Type	Hanu Code No	Labor Cost (S/hr)	Energy Cost (\$/hr)	Maint Cost S	
200-BPH	2001	0.25	10.00	8.00	10.58	360			E		1			}
	2002	0.25	10.00	14.00	10.75	360			£		1]
	2003	0.25	10.00	20.00	10.92	360			E		1			- /
	2004	0.25	12.00	8.00	12.58	360			E		1			/
	2005	0.25	12.00	14.00	12.75	360			E		1			_/
	2006	0.25	12.00	20.00	12.92	360			E		1			/
	2007	0.50	10.00	8.00	10.58	360			E		1			ſ
	2008	0.50	10.00	14.00	10.92	360			E		1		/	
	2009	0.50	10.00	20.00	11.08	360			E		1			
	2010	0.50	12.00	8.00	12.58	360			Ε		1			•
	2011	0.50	12.00	14.00	12.92	360			E		1			
	2012	0.50	12.00	20.00	13.08	360			E		1	/		
	2013	1.00	10.00	8.00	10.75	360			E		1			
	2014	1.00	10.00	14.00	11.05	360			Ε		1			
	2015	1.00	10.00	20.00	11.33	360			E		1			
	2016	1.00	12.00	8.00	12.75	360			E		1	/		
	2017	1.00	12.00	14.00	13.08	360			E		1 /	/		
	2018	1.00	12.00	20.00	13.33	360			E		1 /			
	2019	1.50	10.00	8.00	10.97	360			E		1 /			
	2020	1.50	10.00	14.00	11.00	360			E		1 /			
	2021	1.50	10.00	20.00	11.5	360			E		1/			
•••••		••••••	•••••		•••••	••••••	••••	••••••	•••••	4	Emergency Down P	urchase li		

Figure 2 Mobile Cranes/Crane Trucks

Model	Name	Haximum Lifting At Hax. Radius (ft)	Lifting	Rotation	Mobile Method: tire rail, crawler	Highest Working Point Of Nook (ft)	Travel Speed Loaded (mph)	Travel Speed Empty (aph)	Energy Type	Manu Code No.	Labor Cost	Energy Cost	Maint Cost \$	_
			• • • • • • • • • • • • • • • • • • • •								******	(3/11/)	LOSES	. 7
	3911001									3	;			- }
	3911002									3				
	3911003									3				/
	3911004									3	;			
	3911005									3	3			
	3911006									3	3			/
	3911007									3			/	,
	3911008													
	3911009									:	;		/	
	3911010										;			
	3911011												/	
	3911012									3	3	/		
	3911013										3	/		
	3911014										3	/		
	3911015										3	/		
	3911016									•		/		
	3911017											/		
	3911018										5 /	<i>'</i>		
	3911019									!	• /			
	3911020													
	3911021	ı												
***********				••••••	••••••	•	•	*******	(Cos:		chase Ins t (\$) Cor		

Figure 3 Jib Cranes

odel	Name	Maximum Load Capacity (ton)	Of	OF	Height OF Platform (ft)	Width OF Equip (ft)	Length Of Equip (ft)	Minimum Turning Radius (ft)	Robite Require. tire, rail, crawter	Speed Loaded (mph)	Travel Speed Empty (mph)	Energy Type	Manu Code No.
	3906001	•••••	•••••		•••••	*******	•••••		• ••••••	•••••		•••••	7
	3906002												7
	3906003												7
	3906004												7
	3906005												7
	3906006												7
	3906007												7
	3906008												7
	3906009												7
	3906010												7
	3906011												7
	3906012												7
	3906013												7
	3906014												7
	3906015												7
	3906016												7
	3906017												7
	3906018												7
	3906019												7
	3906020										-		7
	3906021												<u> </u>
	•••••	•	•••••	•••••	•••••	•	<i>[</i>		••••••				
							- co	et Co	ergy ost Hein (hr) Cost		en Purc	hase insi	tall inter t (\$) Cost

Figure 4 Transporters/Trucks/Rail Cars

Model .	Name	Hax Lift Capa (ton)	Max Lift Ht (in)	Haximum Hoving/ Resching Capacity (ton)	Width Of Truck (in)	Of	Outside Turning Radius (in)	Travel Speed Loaded (mph)		Load Type: forward, backward	•		Hanu Code No.	-
GLC O4OA	GL1	4.00	100.00		38.10	82.30	71.90	9.30	9.90	F	Tire	Gas	2	
GLC 040A	GL2	4.00	140.00		38.10	82.30	71.90	9.30	9.90	F	Tire	Gas	2	
ILC DEGA	GL3	4.00	148.00		38.10	82.30	71.90	9.30	9.90	F	Tire	Gas	2	
ILC DADA	CL4	4.00	168.00		38.10	82.90	71.90	9.30	9.90	F	Tire	Gas	2	
CLC OAOA	CL 5	4.00	213.00		38.10	82.90	71.90	9.30	9.90	F	Tire	Gas	2	
PO9ON/GLP	CP1	9.00	96.00		56.10	132.00	110.20	13.40	14.90	F	Tire	Gas	2	
SP090M/GLP	₩2	9.00	116.00		56.10	132.00	110.20	13.40	14.90	F	Tire	Gas	2	
POPOK/GLP	GP3	9.00	136.00		56.10	132.00	110.20	13.40	14.90	F	Tire	Gas	2	
PO9ON/GLP	CP4	9.00	176.00		56.10	134.00	112.20	13.40	14.90	F	Tire	Ges	2	
PO9OM/GLP	CP5	9.00	206.00		56.10	134.00	112.20	13.40	14.90	F	Tire	Gas	2	
C 100L	601	10.00	96.00		45.30	103.90	90.90	11.00	11.50	F	Tire	Gas	2	
C 100L	GC2	10.00	116.00		45.30	103.90	90.90	11.00	11.50	F	Tire	Gas	2	
C 100L	EC3	10.00	136.00		45.30	103.90	90.90	11.00	11.50	F	Tire	Gas	2	
C 100L	CC4	10.00	139.00	l	45.30	103.90	90.90	11.00	11.50	F	Tire	Gas	2	
CC 100L	CC5	10.00	146.00	ı	45.30	105.20	90.90	11.00	11.50	F	Tire	Gas	2	
GC 100L	CC6	10.00	176.00)	45.30	105.20	90.90	11.00	11.50) F	Tire	Gas	2	- 3
GC 100L	GC7	10.00	206.00	ı	45.30	105.20	90.90	11.00	11.50) F	Tire	Gas	2 /	,,
	•		••••••			_		mergy cat Mi (\$/hr) Co	aint D	ost (\$) C	urchase ost (\$) (ost (\$)		

Figure 5 Forklifts

The next set of columns indicate handling capacities of the equipment. This data can be used to determine the material category classifications for which this piece of equipment may be used. The next column indicates the work station combinations (source and destination) which the equipment can service. The travel speed, used to indicate the length of time required for a given move is included This includes both loaded and empty travel speeds. The type of energy used is provided in the next column. There is also a category, indicated by a code, that directs the user to a file that describes the equipment manufacturer. Figure 6 is an example of this file. remaining columns contain equipment specific cost data. These costs are described in detail in the section that presents the figure of merit formula. In order to indicate the potential size of these files, data from three shipyards was collected. This included two private shipyards and one public shipyard. Appendix I contains a complete listing for one of these shipyards. This listing would be subdivided into the five equipment file categories described above in order to be able to run the simulation and optimization program. Additionally, an attempt to develop a complete equipment manufacturer file was made. This file is shown in appendix II.

These files are used to develop a new file, called the potential equipment list. This file is continually updated for each move and over time during the simulation. A more detailed description of the flow of the simulation and the use of this file will be presented later. This file, an example of which is shown in Figure 7, also identifies the piece of equipment by name. It then has a capacity code to indicate the number of items within a material classification that can be handled by this piece of equipment. A column, updated throughout the execution of the simulation indicates the status of the equipment, Another column including available, in use, or down. indicates the location status, i.e. where a piece of equipment is located in the facility at a given time. information is also updated during the simulation. Finally, a series of columns indicate the cost categories, including labor, energy, maintenance, down time, purchase, installation and debt service costs. The last column is the total cost associated with the use of a given piece of equipment up to the current time in the project (for a given simulation run). Note that while most of the data categories are constants, some are variables that are updated during the simulation and some may be stochastic, i.e. represented by a distribution. These variables are evaluated using typical random number generators during the running of the simulation. The optimization equation, used to compute total cost, is shown later in the report.

HFG	MFG	MFG	MFG
CODE	NAME	TELEPGONE	ADDRESS
		•••••	********
1	STANSPEC CORP.	(216) 451-8900	13600 Deise Avenue Cleveland, Ohio 44110.
2	YALE	(206) 762-1777	Northwest, Inc. 7001 N.E. Columbia Boulevard, Portland OR 97218.
3	ACCO	(717) 843-1523	1110 East Princess Street, York, Pernsylvania 17403.
4	KARRINGTON	(800) 233-3010	401 West End Avenue, Manheim, PA 17545.
5	BAKER	(800) 627-1700	1 South Ideho Street, P.O. Box 3581, Seattle, WA 98124.
6	CUCINAN	(800) 228-4444	P.O. Box 82409, Lincoln, NE 68601.
7	INDUSTRIAL CRANE & EQUIP. CO.	(312) 378-9100	4701 West Lowe Street, Chicage, IL 60651.
8	CLYDE	(218) 722-7451	29th Avenue West & Michigan Street, Duluth, Minnesota 55806.
9	AMERICAN MOIST & DERRICK CO.	(612) 293-4567	63 South Robert Street, St Pul, Minnesota 55107.
10	AUTO CRAKE COMPANY	(918) 438-2760	PO Box 581510, Tulsa, Oklahoma 74158.
11	LORAIN	(414) 873-3400	PO Box 422, Nilwaukee, Wl 53201.
12	KATIOKAL CRAKE	(402) 786-2240	11200 North 148th Street, Waverly, Nebraska 68462.
13	MITSUI ZOSEN (USA) INC.	(212) 308-3350	Suite 501, 405 Park Avenue, New York, NY 10022
14	GROVE	(717) 597-8121	PO Box 21, Shady Grove, Pennsylvania 17256.
15	HIAB CRANES & LOADERS INC.	(302) 328-5100	Airport Ind. Pk., 258 Quigley Blvd., New Castle, DE 19720.
16	MULTILIFT	(800) 821-9966	2000 S. Cherokee, Denver, Colorado 80223.
17	RPC CORP	(919) 599-3141	PO Box 451, Roxboro, North Carolina 27573.
18	STELCO INC.	(913) 287-1500	5500 Kansas Avanue, Kansas City, KS 66106.
19	LINK BELT	(312) 295-5500	2800 Lakeside Drive, Bannockburn, Illinois 60015.
20	NEI CLARKE CHAPHAN LTD.	(091) 477-1009	Victoria Norks, Gateshead, Tyme & Wear NES 3HS, UK.
21	WASHINGTON CRANES	(205) 622-4421	2925 First Avenue South, seattle, Wa 98134.

Figure 6 Manufacturers

Nase	Capac Code	Location Status	Usage Status	Labor Cost \$/hr	Energy Cost \$/hr	Maint Cost \$	Emergency Down Cost \$	Purchase Cost \$	Install Eost \$	Interest Lost \$	lotal Lost \$
				-							

Figure 7 Potential Equipment List

Material Class Data Base

Since the number and variation of individual items to be moved during a shipbuilding or major ship repair/overhaul project is extensive, a means of limiting the size of this data base to manageable proportions is required. In order to accomplish this, a material classification scheme is used. This scheme employs fifteen major classes, with the ability to subdivide the classes into sub-categories based on the specifics of the material handling problem. The classes include:

- 1. Structural raw materials
- 2. Outfitting raw materials
- 3. Pipe and tubing fittings and valves
- 4. Electrical system components
- 5. Hull and superstructure components
- 6. Fastening materials
- 7. Motors and pumps
- 8. Major equipment
- 9. Sheet metal components
- 10. Miscellaneous materials
- 11. Sub-assemblies (structural)
- 12. Outfit units
- 13. Sub-blocks
- 14. Blocks
- 15. Grand Blocks

There are specific sub-categories within the first ten major equipment categories. These are shown in Table 5. The assembly stage outputs (categories eleven through fifteen above) are primarily identified by the material handling constraints, including size, weight and special considerations [7,8].

Facility Layout Data Base

This data base is a direct function of the simulation software to be used. Most manufacturing simulation software packages include a simple structure for input of the facility layout. Consequently, no specific recommendations on the format of the iayout input are made in this phase of the research. Following development of a case study of the material handling simulation (phase II of the research), the specifics of inputting the layout will be explained.

Table 5 Material Classification Sub-Categories

Group 1: Structural Raw Materials

ITEM	NASS∞	NO.	BIW NO.
Steel (plates and shapes) Stainless Steel	82 83		40,41
CRES and non-Ferrous (Except Aluminium) Plates and Sheets			42
CRES, Tool Steel and non-Ferrous (Except Aluminum) Bars and Shapes Other Steel. Includes: Chrome-Moly, CU-N1, Brass,			43
etc.	84		
Manufactured Bill of Material Items (Tees, Angles Metal (Ingots, Ores)) 85 86		
Steel Inventory (Flat Bar, Round Bar,			
Small Shapes, etc.) Miscellaneous Surplus Steel	88 89		
Spec. Material	90		
Spec. Material	91 92		
Spec. Material Castings and Forgings	72		44
Aluminum (Plates and Shapes)	81		55,56

Group 2: Outfitting Raw Materials

ITEM	NASSCO NO.	BIW NO.
Pipe, Steel, ASTM A53 Pipe, Steel, ASTM A106, Chrome-Moly,	01	10
Stainless Steel	02	10
Pipe, Aluminum, Copper, Brass, CU-NI, Misc.	03	10
Pipe, Plastic, Polyethylene, Nylon	04	10
Tubing, Stainless Steel	05	10
Tubing, Steel Carbon	06	10
Tubing, CU-NI, 90-10	07	10
Tubing, CU-NI, 70-30	08	10
Tubing, Copper, Brass, Misc.	09	10

Group 3: Pipe and Tubing Fittings and Valves

ITEM	NASSCO NO.	BIW NO.
Adapters, bushings, nipples	10	13,14
Caps, plugs, locknuts	11	13,14
Couplings, connectors	12	13,14
E1 bows, 45°	13	13,14
El bows, 90°	14	13,14
Flanges, expansion joints	15	15
Reducers, returns, inserts	16	13,14
Crosses, tees, laterals, branches	17	13,14
Unions	18	13,14
Deck drains, deck plates, refrigerator space drain	ns 19	13,14
General plumbing fixtures and fittings includes:		
faucets, spouts, flush valves, "p" traps, water		
closets, etc.	20	18
Sockolets, elbolets, brazolets, nipolets, weldole	ts	
thredolets, latrolets, bosses, chill rings,		
couplets, tube fittings	21	
Tube fittings	22	13,14
Separators, traps, strainers, air-eliminators,		
filters, flame arrestors	23	
Gauges and gauge valves, liquid level and sight		
flow indicators, meters, regulators, thermomete		
etc.	24	16,20
Aeroquip fittings and hose	25	20
Mechanical telegraph and voice tube fittings	27	17
Hose and hose fittings, emergency fresh air		
breathing apparatus, fire extinguishers, gas ma		
Angle valves	30	11,12
Butterfly valves	31	11,12
Measurflo control valves, liquid level control va		
temperature and pressure control valves, pressu		
reducing valves, solenoid valves	32	11,12
Gate valves	33	11,12
Globe valves	34	11,12
Cock valves	35 36	11,12
Relief valves	36 37	11,12
Check valves	37	11,12
Manifolds	38	11,12
Other valves includes: ball valves, scupper valve		
eductors, vent terminal valves, vent check valv		11 10
plug valves, blow-off valves	39	11,12

Group 4: Electrical

ITEM	NASSCO NO.	BIW NO.
Cable and wire Fittings and supplies, includes: packing assembly		25,26,27
wave guide bends, terminal blocks, connectors, conduits, fuses, terminals, stiffing tubes, etc. Connector boxes, flourescent light fixtures	. 61 62	28,30
PIastic tape, braid Lighting (lamps) Miscellaneous electric	63 64 65	28
Coils and relays Switches and controllers, includes: circuit break I.C. Equipment and parts	68	37 31,32
Navy symbol electrical, includes: feeder distribu boxes, fuse boxes, jack boxes, switch boxes, teboxes, indicater lights, light panels, receptace	rminal	20. 20
switches, pressure transducers, etc. Wave grids and fittings Power generation and transformation equipment	09	29,30 33 34
Instruments, electrical/electronics Electronic compounds		35 38

Group 5: Hull and Superstructure Components

ITEM	NASSCO NO.	BIW NO.
Deck cleats, chocks, fairleads, hawse pipe material Blocks, sheaves Rigging material includes: clevis, hooks, shackles snaps, links, turnbuckles, etc. Doors and closures Furniture and fixtures Anchoring devices stair treads, railing, gratings, etc. Laundry, barber shop, galley, messing and scullery equipment Lumber Medical and laboratory equipment and supplies Off ice equipments furniture, supplies and ships outfit	42 44 45 48	4 45 69 71
Coverings, floor and deck		73

Group 6: Fastening Materials

ITEM NAS	SCO NO.	BIW NO.
Bolts and studs Nuts Pins Rivets Screws Washers Weld rod, flux, solder Tool S	50 51 52 53 54 55 56 78	53 53 53 53 53 53 61 80,81,82
Misc., includes: hangers, uristruts, clamps, sway braces Gear and shifting boxes, couplings for flex shaft and rigid rods	57 59	54
Rope, threads chain, twine, and wire (non-electrical)		50

Group M tors and Pumps

	ITEM	NASSCO NO.	BIW NO.
Motors Pumps			90 91

Group 8: Major Equipment

ITEM	NASSCO NO.	BIW NO.
Major equipment - Hull	94	97
Major equipment - Machinery	96	98
Major equipment - Electrical	93	99

Group 9. Sheet Metal Components

ITEM	NASSCO NO.	BIW NO.
Vent fittings Air-Conditioning units and supplies, heaters, vent fittings, and ducting includes: intake and exhauset bellmouths, thermostats, spiral		3
fittings, access covers, regulators, diffusers, ventillators, grills	28	93

Group 10. Miscellaneous Materials

ITEM	NASSCO NO.	BIW NO.
Chemicals, grease, oil, gases Campounds, includes: adhesives cement, epoxy, et Government furnished material	74	60,62,63,64 49
Paint Insulation Cleaning supplies	47 46	48 57, 47 72
Finishing, decorative materials and accessories Vendor service items Fabrics, plastics, glass, tapes Safety and protective equipment		74 86 46 70

IV. SOFTWARE CHOICES

Three categories of software were investigated for potential incorporation in the model. These are for data base management, simulation and material handling. Although the use of packaged software is to be maximized, the model will need to provide interfaces and input/output capabilities developed specifically for this application. The final model configuration is presented later in the An attempt to determine if material handling system evaluation software existed was made initially. listings of such software, including those contained in journals like INDUSTRIAL ENGINEERING [9] and MODERN MATERIALS HANDLING [10], indicted that the software was aimed at inventory control and warehousing, and not material Consequently, it was clear that simulation handling. software would be needed to model the material handling process.

In choosing software packages for use in the model, a number of criteria were applied. These criteria are based on qualitative evaluation, since the number, complexity and cost associated with individual testing of software packages would be prohibitive. The primary criteria to be used include (1) suitability of the software, or it's capability to handle the problem, (2) availability of the software, including it's cost, common usage in shipyards, general familiarity among computer users, and service and support by the software supplier, and (3) transferability of results between different users. An analysis of this type can significantly aid in making choices, while limiting the likelihood of selecting inappropriate software.

Data Base Management

The choice of software to be used in developing the data bases was made based on two primary factors. These are the ability of the data base software to perform the necessary functions, and the transferability of the software between shipyards. Consequently, a relatively powerful data base handling software package is required. Additionally, it must be a system that is readily available or already in common use. One such software system that satisfies these requirements is LOTUS 1-2-3 [11].

LOTUS 1-2-3 offers a typical spreadsheet approach to data base management. The software is readily available for PC operation on most commonly used machines. It provides ample space for the major data bases required, offering 256 columns and 8192 rows for data entry. The information required per piece of material handling equipment is considerably less than the 256 column capacity. Similarly, shipyards are not likely to have in excess of 8192 individual pieces of material handling equipment to be

managed and scheduled. The spreadsheet format is one with which most computer users are familiar. It is also quite powerful, providing considerable computational and sorting capability. Although it would certainly be easier to use the model with the specific software packages to be employed in it's development, the specific software packages chosen are not the only ones that would perform the necessary functions. Therefore, shipyards using other spreadsheet type software could continue to use that with the final model. The interface programs are the only parts that would need to be changed.

Simulation

There are many manufacturing simulation software packages available for consideration for use in optimizing material handling. Summaries of these packages are generally presented and updated annually by a number of journals. More than 50 such software packages are currently on the market. Consequently, choices cannot be made based on trials of these various packages. Again, simple criteria The major criteria are must be applied and choices made. flexibility, capability, availability and relative cost. Use of packages that are commonly used and readily available is prudent. Given this need to make a choice without the benefit of comparative testing, this recommendation is based on availability and common use. Most simulation packages that have been developed for manufacturing application using PCs are capable of dealing with the problem to be addressed in this research. Of the packages available, SLAM II, perhaps with the graphical add on package TESS is recommended [121]. This software is commonly available, has been used in numerous applications and is backed by an ongoing support service. It is relatively easy to use and has both the power and flexibility needed to develop a material handling optimization simulation program for a shipyard. Should an individual shipyard have another standard simulation package available, switching from SLAM II should be relatively easy using the model developed in this and-the second phase of the research. Although there are many others, the primary simulation packages that were analyzed in addition to SLAM II were GPSS (General Purpose Simulation System) [13], SIMSCRIPT 11.5 [14] and SIMAN [15]. Detailed descriptions of each of these packages can be found in the references listed.

V. SIMULATION AND OPTIMIZATION MODEL DESIGN

The simulation and optimization model is designed as a general optimization model. As it is established, it can be used in any U.S. shipyard after some shipyard specific data have been input. These data entries can be made within the shipyards and by people involved in material handling scheduling and decision-making. There is no need for those doing this work to be either simulation experts or programmers. The major effort required is to input values in several data bases based on production schedules, the facility layout, and handling equipment available.

The material handling simulation and optimization model can be divided into four sections: (1) the material handling needs scheduling section, (2) the handling equipment selection section, (3) the handling process simulation section, and (4) the handling cost analysis and output section, as shown in Figure 8.

Work Schedule By Material Class

The material handling needs schedule is based on the material classification, the work schedule, and the facility layout. The function of this section is to generate the material handling schedule. The development of the material handling schedule is based on the information stored in two data bases: (1) the work schedule by material class, and (2) the facility layout data base. The work schedule by material class data base must include the following information:

- (1) The weight (or the number of work pieces) of the materials to be handled, separated by material classification. This information must be specified by every work period, for example, by every shift. This tells the total weight (or the number) of material items to be handled per work period for each work station. Typical production indices (as developed for PWBS scheduling) would be used to determine these requirements, and would be presented as shown in Figure 9.
- (2) Material handling equipment requirement codes. The codes could be specified according to the weight or the volume of the class of the materials that can be handled by a given piece of equipment. The codes are used to determine feasible material handling equipment choices per move.
- (3) Sources and sinks of moves. These describe the work stations to and from which the materials move.
- (4) The time at which material becomes available for movement at the present work station, the required time and the earliest receiving time at the following work stations.

~ *a*

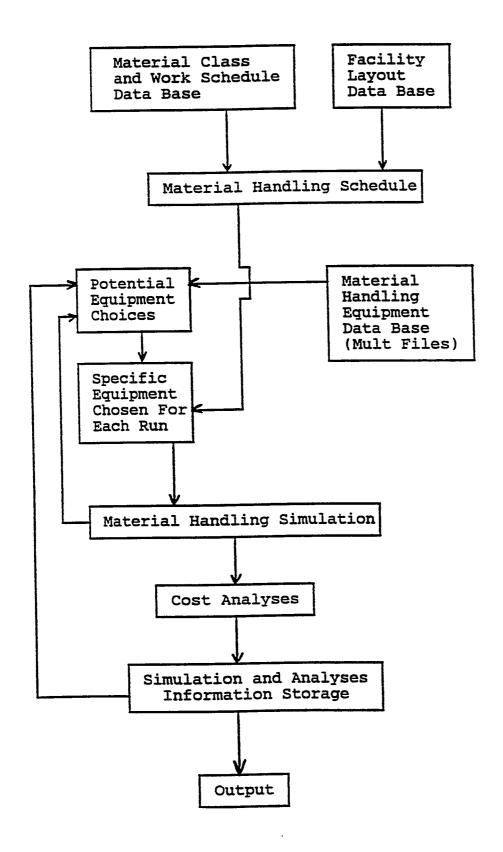


Figure 8 Simulation and Optimization Flow Chart

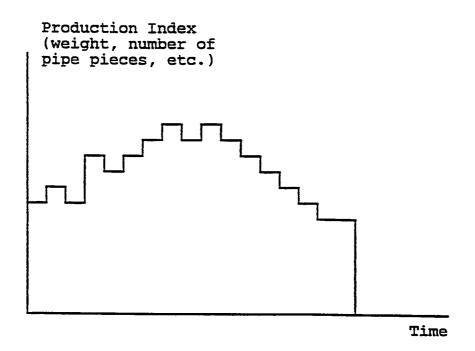


Figure 9 Material Movement Schedule

These values indicate the time period within which the materials should be moved to avoid causing sechedule delays.

Facility Layout Data Base

The facility layout data base provides the facility layout information to the model. The information includes:

- (1) Work station codes or names. The codes are designed to identify the stations and the nearest adjacent stations.
- (2) The distance between any two work stations. For a general model development, the distance information for all the work stations should be included, although the material handling process could not occur directly between some of the work stations.
- (3) The possible handling equipment code between any two stations. This information is used to develop the potential equipment list, which will be described later.

These data are contained directly in the simulation program, which facilitates the input of the work station layout and location information.

Actual Material Handling Schedule

Based on the information from these two data bases, a handling schedule is developed. The handling schedule corresponds to each work period for all of the work stations. The schedule includes the following information:

- (1) The total weight of material to be handled at a work station. At every work station, material is input and output at various work periods. The total weight to be handled at the station, including both input and output, indicates the minimum handling equipment capacity required at this station.
- (2) The work piece handling code. The development of this code is the combination of (a) the equipment requirement code from the material class and work schedule data base and (b) the possible handling equipment code between any two work stations from the facility layout data base. The work piece handling code indicates possible handling equipment which can be used for handling the work piece between the two work stations.
- (3) Handling sequence. There are several possible criteria from which to develop the handling sequence:
 - a) First requirement first handling.

- b) First available first handling.
- c) Material group handling.
- d) Others.

Development of either a single strategy to be followed, or options for a choice of strategies will be necessary to automate this part of the model. Alternatively, interactive input at this section could permit the user to make these choices as a part of running the model.

The handling schedule chosen will be an input for the process simulation and a reference under which the specific handling equipment will be selected. The simulation will permit evaluation of alternative schedules, sequences and equipment choices.

Handling Equipment Selection

The handling equipment selection section consists of the material handling equipment data base, the potential equipment choices, and the specific equipment chosen for each run. The function of this section is to select the possible handling equipment and specify the equipment combinations for the handling process. The material handling equipment data base provides the equipment information to the model. The potential equipment are selected based on the feasibility of the use of a particular piece of equipment for a particular move and the availability of the equipment in the material handling equipment data base. For example, if the possible equipment code indicates that 40-ton fork lifts and 40-ton cranes can be used to handle a class of material from work station A to work station B, both of these kinds of equipment will be selected from the material equipment data base. Then, the availability of the equipment will be determined. In other words, the program will ascertain whether the equipment is already in use, is unavailable due to maintenance or breakdown needs, etc. The possible choices are then saved This file is called the potential equipment in a file. list. For every piece of material, there is a possible equipment code attached. The material handling equipment data base is searched by each of the possible equipment codes, and thus all of the potential equipment are selected. Then the cost and handling information for the selected equipment is transferred into the file. This file is used for the specific equipment combination selection for each simulation run.

In order to specify the equipment combination for each run, some rules must be developed. In the material handling simulation process, the number of equipment combinations must be limited. Some infeasible combinations should be

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eliminated before actually simulating the handling process. Therefore, the rules for determining handling equipment combinations should be based several factors:

(1) Capacity.

Capacity considerations include: a) geometric and weight capacity, in that the equipment selected must be capable of handling the weight and geometric shape the work piece; b) total weight and distance, since the maximum handling capacity of a certain piece of equipment at a certain period of time may be limited when the distance is given; and c) maximum total transportation capacity, since many pieces of handling equipment may be assigned during the same period of time between two work stations and thus traffic congestion must be considered when selecting the equipment combination.

2) Handling Restrictions.

Some of the equipment will be eliminated from certain routes between work stations due to facility layout restrictions and by the method of handling the material.

3) Heuristics.

Heuristics will be developed to limit the simulation runs. Some of the materials can be handled by multiple kinds of equipment or by a number of the same type of equipment during the same period of time. Determining how to select the equipment requires that heuristics be developed.

Simulation

The material handling simulation section is used to simulate the material handling process. The function of this section is to model the material handling equipment flow during the entire project. During the simulation, the entities (materials) flow from station to station. The flow time between stations is the material handling time. Within each station, there is a constant or stochastic material processing time. The equipment flow, including loading time, transporting time, unloading time, and back traveling time, corresponds to the material flow. The finished materials wait at the present work station until a piece of handling equipment is available to move them to the next work station.

The handling sequence is developed at the material handling schedule section and the handling equipment is assigned at the handling equipment selection section. In the simulation model, the material handling equipment utilization is the dependent variable, while the loading, unloading, transporting and back traveling time for the

material handling equipment is the independent variable. The values of the independent variables must be input before the process is simulated. If the values of the variables are constant, the material utilization can be calculated according to the handling schedule and the equipment assignment. However, some or all of the variables may be stochastic values. They change from time to time. In order to know the average utilization for each piece of equipment, a simulation for the process is preferred. After each simulation run, the equipment utilization will be known.

The independent variables described above are also used for the approximate calculation in the handling equipment selection section. Suppose there were 100 tons of materials to be handled from work station A to work station B within a work period. After a calculation, it is known that two fork lifts can handle the materials at a work period. It is reasonable to assign two fork lifts to the job for a simulation run. The calculation for the assignment is not precise. However, after the simulation, the utilization of the equipment and the actual work time of the equipment will be obtained and will be used for the material handlina cost analysis.

Cost Analysis

The handling cost analysis and output section is the last section of the simulation and optimization model. function of this section is to perform a material handling cost analysis and provide the most cost efficient material handling equipment assignment, and handling schedule. The material handling cost analysis is conducted by means of a figure of merit (cost) formulation. The cost formula consists of four cost categories. These include the labor cost, the energy cost, the emergency breakdown cost, and the cost of having the equipment available. The labor cost and the energy cost are proportional to the actual work time of cost of having the equipment available. the equipment, which is obtained after the simulation of the handling process. The last two cost categories may have relationships relative to the equipment actual work time also. Further investigation is required to understand these relationships.

After each of the process simulations and the cost calculations, the total cost will be compared with the costs from previous runs. Then, the cost and the equipment work schedule will be stored. Finally, a least total cost material handling equipment utilization schedule and several near least total cost equipment utilization schedules are printed.

Figure of Merit Formula

In order to evaluate optional choices of material handling equipment, a figure of merit (cost) formulation Using this formula, applied to each move must be developed. and the associated piece of material handling equipment used, a total cost of material handling equipment choices can be determined for a given plan. The total cost of The cost formula various plans can then be compared. These include the computes cost in four basic categories. labor cost associated with the use of a given piece of material handling equipment, the energy cost, the cost associated with "emergency" or unanticipated breakdowns of the equipment, and the cost of having the equipment available, including purchase, depreciation, scheduled maintenance, etc. These costs are combined on either an hourly use rate or over a total projected project duration and then summed for the project. The figure of merit formulation is given below.

Total Cost (\$ /project) =

SUM [labor cost * actual working time (hrs) all moves

- + energy cost A actual working time (hrs)
- + emergency breakdown cost
- + ((purchase cost + installation cost)
 * depreciation coefficient + interest cost
 + maintenance cost) * project utilization
 coefficient (partial yearly usage of equipment
 on a specific project)]

where:

Labor Cost (\$/hr) = Number of operators

* Average wage/hour/operator

actual working time = travel time + load time + unload time

Maintenance Cost (\$) = Constant or stochastic (distribution)

Purchase Cost (\$) = constant

The constant values must be input to the individual shipyard material handling equipment data base. Given these data, the simulation can then be run to provide a means of evaluating alternative choices of material handling equipment usage and scheduling. Note that in the total cost equation, labor and energy costs for a particular piece of equipment and a specific move must include unloaded moves (if required) to position the equipment where it is needed. The simulation model will account for this requirement. Additionally, capital costs (purchase and installation), must be based on present value computations.

An Example of A Material Handling Process Simulation

The following is a simple example of how the simulation and optimization process would work. For this example, there are five work stations. The processing time at each work station is denoted by Tpk, which is a random variable of a distribution, where k = 1, 2, 3, 4, or 5. The material handling time, Thij, is also a random variable with a known distribution, where Thij means the time required to handle a certain amount of material from station i to station j. The handling diagram is given as show in Figure 10. Si denotes the ith station; i = 1, 2, 3, 4, or 5. The material handling schedule is given in Figure 11. Mij means that M units will be handled from station Si to station Sj. The total weight of materials handled is 100 units for the whole project. The handling process is divided into three periods. At period one, 20 and 10 units of material are handled from station 1 to station 2 and 3 respectively. The 20 units of material moved to station 2 will be processed at station 2, and 10 units of them will be handled further to station 4 after processing. It is assumed that if the processing is conducted between any two of the handling

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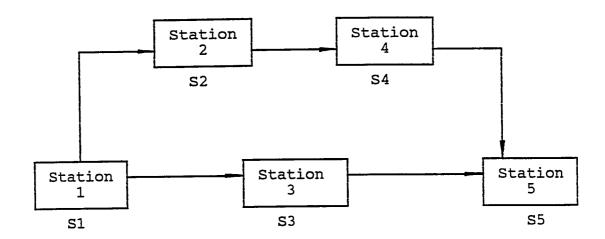


Figure 10 Material Handling Diagram

M13	10			10	Tp3				
M35						20			
M12	20	Tp2		60	Tp2				
M24			10			30	40	Tp4	
M45				10					70
	Period I				Perio	d II	F	erio	lIII

Figure 11 Material Handling Schedule

periods, the processing time is not considered by the material handling model. This case is true, when there is enough inventory space, and the material is not required by the next work station immediately after it is processed. Otherwise, the processing time must be considered. The processing time is denoted by Tpk.

There are two pieces of equipment, El and E2, available to perform the material handling tasks. E2 has a handling capacity of 1.4 times that of El. Three handling equipment assignment schedules are listed in Figures 12, 13, and 14, where sij denotes the handling process from station i to station j. It is assumed that the process is simulated by three runs for each of the three equipment assignment schedules. The results are shown in Figures 15, 16, and 17. Note that the variations in processing and handling times were arbitrarily chosen. The values of the cost formula parameters are listed in Figure 18. There are four cost categories in the Figure: labor cost, energy cost, emergency breakdown cost, and the cost associated with having the equipment available. It is assumed that the emergency breakdown cost is approximately zero because of the high maintenance costs for the equipment. It is also assumed that there are 150 work periods for the whole year. Therefore, the project utilization coefficient is P/150, where P denotes the number of periods of equipment utilization for this project. Figure 19 lists the total mean costs of the material handling process for each of the three handling equipment assignment schedules. Finally, the last two pages show an example of the cost calculation.

Period	Equipment	Handling Sequence
1	E1	S12-S13-S24
2	E1	S12-S13-S45-S31-S24
3	E1	S24-S45

Figure 12 Equipment Assignment Schedule I

Period	Equipment	Handling Sequence		
1	E1	S12-S13-S24		
	E1	S12-S13-S45-S24		
2	E2	S12-S13-S35		
3	E2	S24-S45		

Figure 13 Equipment Assignment Schedule II

Period	Equipment	Handling Schedule
1	E1	S12-S13-S24
2	E2	S12-S13-S45-S35-S24
3	E2	S24-S45

Figure 14 Equipment Assignment Schedule III

Schedule I
Handling and Processing Times: Period 1

Sim Run	Th12	Tp2	Th13	Th24	Work Time	Work and Idle Time
1	4.0	1.5	2.0	1.0	7.0	7.0
2	3.0	2.0	1.5	1.5	6.0	6.5
3	2.0	2.5	3.0	2.0	7.0	7.0
Avg	3.0	2.0	2.17	1.5	6.67	6.67

Handling and Processing Times: Period 2

Sim Run	Th13	Tp3	Th12	Tp2	Th24	Th45	Th35	Work Time	Work & Idle Time
1	1.5	1.5	9.0	2.5	4.0	1.0	1.5	17.0	17.5
2	2.0	1.0	10.0	3.0	3.0	0.5	2.0	17.5	18.0
3	2.0	2.0	8.0	2.0	5.0	1.0	2.0	18.0	19.0
Avg	1.8	1.5	9.0	2.5	4.0	0.8	1.8	17.5	18.2

Handling and Processing Times: Period 3

Sim Run	Th24	Tp4	Th45	Work Time	Work & Idle Time
1	6.0	4.0	5.0	11.0	15.0
2	5.0	3.0	6.0	11.0	14.0
3	4.0	5.0	5.5	9.5	14.5
Avg	5.0	4.0	5.5	10.5	14.5

Thij = handling time from station i to j. Tpk = processing time at station k.

Figure 15 Schedule I Handling and Processing Times

Schedule II
Handling and Processing Times: Period 1

Sim Run	Th12	Tp2	Th13	Th24	Work Time	Work & Idle Time
1	4.0	1.5	2.0	1.0	7.0	7.0
2	3.0	2.0	1.5	1.5	6.0	6.5
3	2.0	2.5	3.0	2.0	7.0	7.0
Avg	3.0	2.0	2.17	1.5	6.67	6.67

Handling and Processing Times: Period 2

								EZ	2	I	£1
Sim Run	Th13	Tp3	Th12	Tp2	Th24	Th45	Th35	Work Time	Work & Idle Time	Work Time	Work & Idle Time
1	0.6	1.0	3.7	3.0	3.0	0.5	1.0	5.3	6.3	7.8	9.7
2	0.7	1.5	4.2	2.5	4.0	1.0	1.4	6.3	7.8	9.9	10.7
3	0.8	2.0	3.3	2.0	5.0	1.0	1.5	5.6	7.6	10.1	10.3
Avg	0.7	1.5	3.6	2.5	4.0	0.8	1.3	5.6	7.1	9.2	10.1

Handling and Processing Times: Period 3

Sim Run	Th24	Tp4	Th45	Work Time	Work & Idle Time
1	4.2	3.0	3.5	7.7	10.7
2	4.0	4.0	3.0	7.0	11.0
3	3.8	5.0	4.0	7.8	12.8
Avg	4.0	4.0	3.5	7.5.	11.5

Thij = handling time from station i to j. Tpk = processing time at station k.

Figure 16 Schedule II Handling and Processing Times

Schedule III
Handling and Processing Times: Period 1

Sim Run	Thl 2	Tp2	Th13	Th24	Work Time	Work & Idle Time
1	4.0	1.5	2.0	1.0	7.0	7.0
2	3.0	2.0	1.5	1.5	6.0	6.5
3	2.0	2.5	3.0	2.0	7.0	7.0
Ave	3.0	2.0	2.17	1.5	6.67	6.67

Handling and Processing Times: Period 2

Sim Run	Th13	Tp3	Th12	Tp2	Th24	Th45	Th35	Work Time	Work & Idle Time
1	1.0	2.0	6.5	3.0	3.5	0.6	1.1	12.8	14.5
2	1.4	1.5	6.0	2.0	3.0	0.4	1.3	12.1	13.2
3	1.4	1.0	7.0	2.5	2.0	0.6	1.3	12.3	12.7
Avg	1.3	1.5	6.5	2.5	2.8	0.5	1.2	12.3	13.3

Handling and Processing Times: Period 3

Sim Run	Th24	Tp4	Th45	Work Time	Work & Idle Time
1	4.2	3.0	3.5	7.7	10.7
2	4.0	4.0	3.0	7.0	11.0
3	3.8	5.0	4.0	7.8	12.8
Avg	4.0	4.0	3.5	7.5	11.5

Thij = handling time from station i to j. Tpk = processing time at station k.

Figure 17 Schedule III Handling and Processing Times

Items		El			E2		
1	Labor Cost \$/hr	18.0			20.0		
2	Energy Cost \$/hr	5.0		7.0			
3	Emergence Breakdown cost \$	0.0			0.0		
	Schedule	I	II	III	I	II	III
4	Cost for Having Equipment \$	130	87	43	-	127	127
	Periods of Equipment Used P	3	2	1	0	2	2
	Project Utilization Coefficient	P/150		P/150			
	Maintenance Cost \$	1,500		2,000			
	Purchase Cost \$	20,000		30,000			
	Installation Cost \$	1,000		1,500			
	Interest Cost \$	2,000		3,000			
	Depreciation Coefficient	1/7		1/7			

Figure 18 Cost Parameters

Equipment Assignment Schedule	Total Cost
I	1012.01
II	1058.91
III	958.01

Figure 19 Total Project Costs

Cost Calculation

I Cost for Having the Equipment

cost for Having the Equipment

- = ((purchase cost + installation cost)
 - * depreciation coefficient + interest cost
 - + maintenance cost) * project utilization coefficient (partial yearly usage of equipment on a specific project)

Cost for having El

$$= ((20,000 + 1000) * (1/7) + 2,000 + 1,500) * (P/150)$$

$$130, P = 3$$

= 87, P = 2
43, P = 1

Cost for having E2

$$((30,000 + 1,500) * (1/7) + 3,000 + 2,000) * (P/150)$$

$$0,P=0$$
 = 127, $P=2$

II Handling Cost

Schedule I

Labour Cost
$$(\$)$$
: $(6.67 + 18.2 + 14.5) * 18 = 708.66$

Energy Cost (
$$\$$$
): $(6.67 + 17.5 + 10.5) * 5 = 173.35$

Emergency Breakdown Cost (\$): 0.00

Cost for Having the Equipment (\$): 130.00

Total Cost (\$): 1012.01

Schedule II

Labour Cost \$):
$$(6.67 + 10.10) * 18 + (7.1 + 11.5) * 20 = 673.86$$

Energy Cost \$): $(6.67 + 9.2) * 5 + (5.6 + 7.5) * 7 = 171.05$
Emergency Breakdown Cost (\$): $= 0.00$
Cost for Having the Equipment (\$): $= 127 + 87 = 214.00$
Total Cost (\$): $= 1058.91$

Schedule III

VI. FEASIBILITY ANALYSIS

There are two primary issues of feasibility. The first involves the size and therefore running time of the model. The use of material categories and the scheduling parameters is a means of limiting the size of the simulation model. There are fifteen material categories, including the ten for specific individual material items, plus the five assembly categories. There are likely to be between 15 and 30 work station locations required to model the production process. This size model should be well within the capabilities of the PC based version of SLAM II recommended for use. Additionally, the material handling equipment data base should not be difficult to develop or handle. Similarly, the project schedule, if appropriately developed using the schedule parameter approach should also not be too large or cumbersome to handle. Clearly, the movement of every single item is not intended to be incorporated in the model. Rather, preplanned moves of equipment, manufactured parts and assemblies between work stations only are evaluated by Thus the large frame material handling issues this model. are involved. Subject to project specific needs, however, the model can be used to evaluate "critical" moves no matter what category (including size, weight, etc.) material is involved. Therefore, preplanning of moves is a prerequisite to the use of the model. The simulation model should be an effective tool to evaluate changes from the plan and to alter the material handling schedule to deal with such changes.

The second feasibility issue is more difficult to analyze prior to actually attempting to develop the model. This involves the heuristics development for making individual equipment choices. Heuristics can be extremely difficult to develop. This seems to become a more significant problem as they more closely model the actual decision process employed by an experienced decision-maker. In developing the simulation model, less meaningful but simple heuristics can be a useful starting point. The accuracy (utility) of the heuristics can then be increased incrementally until they are either satisfactory or the efficiency of the model begins to deteriorate significantly. While there is no assurance that such a set of heuristics can be obtained, the increasing success of such simulation modeling in other manufacturing environments provides some optimism [16, 17, 18].

VII. OTHER USES OF THE MODEL

There are a number of possible uses for the model proposed in this paper. The two primary areas of use involve material handling equipment decisions and scheduling. In the first area, the model should be effective in two significant areas. First, decisions on buying and selling material handling equipment can be justified by running the model with the material handling equipment data base appropriately changed. Benefits in cost and schedule will be readily apparent. Additionally, maintenance and breakdown records can be used to improve the accuracy of the data base, and then can be used to improve the scheduling of maintenance and prediction of breakdowns.

In the area of project scheduling, the model can be used to consider the impacts of schedule changes on material handling requirements and costs. Such an analysis can highlight bottleneck operations and therefore permit critical review of the manufacturing system. Similarly, the model can be used to evaluate the shipyard layout, and to provide material handling cost figures for layout alterations. The use of manufacturing simulation in other industries has lead to improvements in system problem identification and solution. This includes not only scheduling, equipment and layout, but also quality, batch size, labor utilization, etc. It is this author's belief that simulation holds similar promise for shipyard operations improvement.

VIII. FUTURE RESEARCH

In order to complete the development of a functioning, material handling simulation system, the following work must be accomplished:

- 1. Develop an interactive simulation program to produce a least cost material handling equipment schedule, based on equipment availability, production requirements, and the facility layout.
- 2. Develop and incorporate heuristics to perform internal decision-making within the simulation, as an augmentation and/or substitute to interactive decision-making.
- 3. Develop links between the results of the material handling simulation and planning, scheduling and production control functions.
- 4. Implement intelligent (AI based) simulation techniques to control material handling and to improve internal heuristics based on previous results.

The first two items above will enable shipyards to employ simulation as a tool to improve the scheduling of material handling operations. In particular, both short term and long term improvements can be expected. The th and fourth items above are longer term projects, with even more potential for improvement of material handling. third item provides a feedback loop from the material handling group to planning and scheduling, permitting material handling considerations to be evaluated as a part of those functions. The fourth item leads to addressing the future prospects and power of simulation, i.e. artificial intelligence based simulation. This area appears to be the direction in which simulation is headed. Its application and power are contained in the ability of the computer program to learn from previous computer runs, producing improved planning outputs based solely on computer evaluation, without expensive, in the yard trial and error approaches. The first two items are contained within the scope of Phase II of this project. The third and fourth areas are longer term research possibilities.

IX. CONCLUSIONS

This report describes the results of the first phase of a two phase research project concerning the use of simulation to aid in the choice of material handling equipment for use in a shipbuilding or ship repair/overhaul project. is the outcome of attempts to carefully formulate the problem, both to indicate the data required and to evaluate the feasibility of producing software that would be useful handling department managers. Although to shipyard material handling department managers. only completion of phase II of the project can definitely establish the viability of simulation to solve this problem, the author is encouraged by these results. while the size and scope of shipyard projects represents a significant problem in utilizing simulation~ it appears possible to handle a problem of this size, if it is formulated in the manner recommended. A key factor, as in any simulation, is the accuracy of input data. In particular, schedule and work progress parameter data must be valid in order to produce valid simulation results. Despite this potential difficulty, the use of simulation shows considerable promise as a tool to help reduce costs and improve planning of material handling operations in a shipyard.

The simulation model that has been formulated, and the data base structures are a significant initial step. This effort is the part of the process that requires innovation and abstraction. Since this phase of the research has been successfully completed, the remaining steps, while difficult, are less innovative. Therefore, there is a high likelihood that phase II would produce a workable product. Additionally, as described previously, a working simulation model of a shipbuilding or repair/overhaul project could be a powerful tool in process improvement.

There are some outputs of this phase of the work that can be useful immediately. The material classification system can help planners reduce the scope of other common shipyard tasks. It can provide a framework for material handling planners to address schedules without employing simulation. Secondly, the equipment manufacturers data base can be useful to maintenance and procurement people. Finally, the cost formulation can also be a helpful tool to material handling planners, aiding their thought process in making manual assignments, as is current practice. Naturally, the most significant potential benefits of this work require completion of phase II of the research.

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APPENDIX Al

MATERIAL HANDLING EQUIPMENT LIST

ASSET	TRK E/W	LOC		MANUFACTURERS	SERIAL LOCATION		
NUMBER			EQUIP DESCRIPTION		NO. DESCRIPTION		CARN
				11 /A	N/A (REBLDG & AREA -WB	TRANS CARS	•••••
			CAT GEN COLL CHG NO		3443 BLDG & AREA -WB		
3906002	XCMB	100 010	TRANSLATION CAR	WESTERN GEAR	3379 BLDG & AREA -WB	TRANS CARS	
2004004	X C WB	100 010	TRANSLATION CAR	WESTERN GEAR	3361 BLDG & AREA -WB		
2006005	V C ND	100 818	TRANSLATION CAR	WESTERN GEAR	3431 BLDG & AREA -WB		
3900003	V C UR	100 818	TRANSLATION CAR	WESTERN GEAR	3387 BLDG & AREA -WB		
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3906014	X C WB	100 818	TRANSLATION CAR	WESTERN GEAR	3452 BLDG & AREA -WB	TRANS CARS	
			TRANSLATION CAR	WESTERN GEAR	3155 BLDG & AREA -WB	TRANS CARS	
			TRANSLATION CAR	WESTERN GEAR	3209 BLDG & AREA -WB	TRANS CARS	
3906017	X C WB	100 818	TRANSLATION CAR	WESTERN GEAR WESTERN GEAR WESTERN GEAR	3065 BLDG & AREA -WB	TRANS CARS	
3906018	X C WB	100 818	TRANSLATION CAR	WESTERN GEAR	3130 BLDG & AREA -WB	TRANS CARS	
3906019	X C WB	100 818	3 TRANSLATION CAR	WESTERN GEAR	3396 BLDG & AREA -WB	TRANS CARS	
3906020	X C WB	100 818	3 TRANSLATION CAR	WESTERN GEAR			
3906021	X C WB	100 818	3 TRANSLATION CAR	WESTERN GEAR	N/A BLDG & AREA -WB	TRANS CARS	
3906022	X C WB	100 818	3 TRANSLATION CAR	WESTERN GEAR	3305 BLDG & AREA -WB	TRANS CARS	
3906023	X C WB	100 818	3 TRANSLATION CAR	WESTERN GEAR	3296 BLDG & AREA -WB	TRANS CARS	
			3 TRANSLATION CAR			TRANS CARS	
			3 TRANSLATION CAR			TRANS CARS	
3906026	X C WB	100 818	3 TRANSLATION CAR	WESTERN GEAR	3351 BLDG & AREA -WB		
3906027	XCWB	100 818	3 TRANSLATION CAR	WESTERN GEAR	3349 BLDG & AREA -WB		
3906028	3 X C WB	100 818	B TRANSLATION CAR	WESTERN GEAR	3440 BLDG & AREA -WB		
3906029	XCWB	100 818	B TRANSLATION CAR	WESTERN GEAR	3414 BLDG & AREA -WB		
3906030	XCWB	100 818	B TRANSLATION CAR B TRANSLATION CAR B TRANSLATION CAR B TRANSLATION CAR	WESTERN GEAR	3444 BLDG & AREA -WB		
3906031	XCWB	100 813	B TRANSLATION CAR	WESTERN GEAR	3458 BLDG & AREA -WB		
3906032	2 X C WB	100 81	B TRANSLATION CAR	WESTERN GEAR	3240 BLDG & AREA -WB		
3906033	S X C WB	100 81	B TRANSLATION CAR B TRANSLATION CAR	WESTERN GEAR	3205 BLDG & AREA -WB		
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					3287 BLDG & AREA -WB		
	SXCWB		8 TRANSLATION CAR	WESTERN GEAR	3223 BLDG & AREA -WB 3333 BLDG & AREA -WB		
	7 X C WB		8 TRANSLATION CAR	WESTERN GEAR WESTERN GEAR	3168 BLDG & AREA -WB		
	BXCWB PXCWB		8 TRANSLATION CAR 8 TRANSLATION CAR	WESTERN GEAR	N/A BLDG & AREA -WB		
	O X C WB		8 TRANSLATION CAR	WESTERN GEAR	3417 BLDG & AREA -WB		
	1 X C WB		8 TRANSLATION CAR	WESTERN GEAR	3494 BLDG & AREA -WB		
	2 X C WB		8 TRANSLATION CAR	WESTERN GEAR	3426 BLDG & AREA -WB		
	X C WB		8 TRANSLATION CAR	WESTERN GEAR	3427 BLDG & AREA -WB		
	4 X C WB	_	O UNASSIGNED	N/A	N/A BOTH EN/WN YARD		
	X C WB		8 TRANSLATION CAR	WESTERN GEAR	3425 BLDG & AREA -WB		
	S X C WB		8 TRANSLATION CAR	WESTERN GEAR	3423 BLDG & AREA -WB		
	7 X C WB		8 TRANSLATION CAR	WESTERN GEAR	3429 BLDG & AREA -WB		
	B X C WB	_	O UNASSIGNED	N/A	N/A BOTH EN/WN YARD		
	O X C WB		8 TRANSLATION CAR	WESTERN GEAR	3353 BLDG & AREA -WB		
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				TRANSLATION	CAR		GEAR					TRANS			
				UNASSIGNED		N/A				EN/WN YA		TRANS			
				TRANSLATION	CAR	WESTERN	GEAR			& AREA -		TRANS			
3906057				UNASSIGNED		N/A	0540	N/A 3488	ROIH	EN/WN YA	KU	TRANS			
				TRANSLATION				3483				TRANS			
				TRANSLATION	CAR		GEAR					TRANS			
3906060				UNASSIGNED		N/A		N/A		EN/WN YA		TRANS			
				TRANSLATION		WESTERN	GEAR	3323		& AREA -		TRANS			
				TRANSLATION		WESTERN	GEAR	3338		& AREA -		TRANS			
				TRANSLATION		WESTERN				& AREA -		TRANS			
				TRANSLATION		WESTERN				& AREA -		TRANS			
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				TRANSLATION				N/A				TRANS			
				TRANSLATION	CAR	WESTERN				& AREA		TRANS			
3906069				UNASSIGNED				N/A				TRANS			
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				TRANSLATION		WESTERN				& AREA		TRANS			
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3906074				UNASSIGNED		N/A		N/A		EN/WN Y/		TRANS			
				TRANSLATION	CAR	WESTERN				& AREA		TRANS			
3906076				UNASSIGNED						EN/WN Y/		TRANS			
				TRANSLATION	CAR	WESTERN	GEAR			& AREA		TRANS			
3906078				UNASSIGNED		N/A				EN/WN Y/		TRANS			
				TRANSLATION		WESTERN				& AREA		TRANS			
				TRANSLATION	CAR	WESTERN	GEAR			& AREA		TRANS			
3906081				UNASSIGNED		N/A				EN/WN Y/		TRANS			
				TRANSLATION		WESTERN				& AREA		TRANS			
				TRANSLATION						& AREA		TRANS			
				TRANSLATION	LAK		GEAK			& AREA		TRANS			
				UNASSIGNED	CAD	N/A	CCAD			EN/WN YA		TRANS			
3906086				TRANSLATION		WESTERN				& AREA		TRANS			
3906087 3906088				TRANSLATION TRANSLATION		WESTERN				& AREA		TRANS			
3906089				TRANSLATION		WESTERN				& AREA		TRANS			
3906090				UNASSIGNED	CAR	WESTERN	GEAR			& AREA		TRANS			
3906091			_	UNASSIGNED		N/A				EN/WN YA		TRANS			
3906092				TRANSLATION	CAR	N/A WESTERN	CEVD.			EN/WN YA & AREA ·		TRANS			
3906093				TRANSLATION								TRANS			
3906093				TRANSLATION		WESTERN				& AREA		TRANS			
3906095				TRANSLATION		WESTERN				& AREA .		TRANS			
3906095						WESTERN				& AREA -		TRANS			
				TRANSLATION	CAR	WESTERN	GEAR			& AREA -		TRANS			
3906097				UNASSIGNED	CAD	N/A	CEAD			EN/WN YA		TRANS			
3906098	A C W	> 10C	010	TRANSLATION	LAK	WESTERN	GEAK	3485	BLUG	& AREA -	MR	TRANS	CARS		

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MANUFACTURERS SERIAL LOCATION CATEGORY

ASSET	TRK	E/W	LOC				MANUFACT	URERS	SERIAL		LOCATION	CATE	GORY	
NUMBER					EQUIP DESCRI						SCRIPTION		RIPTION	
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3906100					TRANSLATION UNASSIGNED	LAK	N/A	GEAR			EN/WN YAR		S CARS	
					UNASSIGNED		N/A				EN/WN YAR		S CARS	
							WESTERN	CEAD	-		& AREA -W		S CARS	
					TRANSLATION	CAR		GEAR			EN/WN YAR		S CARS	
3906103					UNASSIGNED TRANSLATION	CAR	N/A WESTERN	CEAD	-		& AREA -W		S CARS	
						CAR		GEAR			EN/WN YAR		S CARS	
3906105					UNASSIGNED	CAD	N/A WESTERN	CEAD			& AREA -W		S CARS	
3906107			100	010	TRANSLATION TRANSLATION		WESTERN				& AREA -W		S CARS	
3906109					TRANSLATION		WESTERN				& AREA -W		S CARS	
				_		CAR					EN/WN YAR		S CARS	
3906110					UNASSIGNED		N/A				EN/WN YAR		S CARS	
3906111					UNASSIGNED TRANSLATION				•		& AREA -W		S CARS	
3906112					UNASSIGNED	CAR	N/A	GEAR			EN/WN YAR		S CARS	
						CAD	-	CEAD	-		& AREA -W		S CARS	
3906114			_	_	TRANSLATION	CAR	N/A	GEAR			EN/WN YAR		S CARS	
3906116					UNASSIGNED UNASSIGNED						EN/WN YAR		S CARS	
3906117							-		-		EN/WN YAR		S CARS	
		, WD	100	818	UNASSIGNED	CAD	N/A UESTERN	CEAD					S CARS	
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300617	ν r	· MD	100	818	TRANSLATION TRANSLATION TRANSLATION TRANSLATION	CAR	UESTERN	GEAR	3408	BING	& ARFA -U	R TRAN	S CARS	
3006120	Y C	, MB	100	818	TRANSLATION	CAR	UECTEDN	GEAD	3407	RIDG	& ARFA -U	R TRAN	S CARS	
. 3906122					UNASSIGNED	UAK	N/A	CLAR			EN/WN YAR		S CARS	
3906123					UNASSIGNED		N/A		•		EN/WN YAR		S CARS	
					TRANSLATION	CAP	WESTERN	GEAD	_		& AREA -W		S CARS	
3906125					TRANSLATION		WESTERN				& AREA -W		S CARS	
					TRANSLATION						& AREA -W		S CARS	
					TRANSLATION		WESTERN				& AREA -W		S CARS	
3906128					UNASSIGNED		N/A				EN/WN YAR		S CARS	
					TRANSLATION	CAR	WESTERN	GEAR	-		& AREA -L		S CARS	
					TRANSLATION		WESTERN				& AREA -W		S CARS	
					TRANSLATION		WESTERN		3400	BLDG	& AREA -L		S CARS	
3906132					UNASSIGNED		N/A			вотн	EN/WN YAR	_	S CARS	
						CAR		GEAR	3442	BLDG	& AREA -W		S CARS	
3906134	х	WB	100	818	TRANSLATION TRANSLATION	CAR	WESTERN				& AREA -W		S CARS	
					TRANSLATION		WESTERN	GEAR	3401	BLDG	& AREA -W	B TRAN	S CARS	
3906136			0		UNASSIGNED		N/A			вотн	EN/WN YAR	D TRAN	S CARS	
3906137	χc	: WB	0	0	UNASSIGNED		N/A		N/A	вотн	EN/WN YAR	D TRAN	IS CARS	
3906138	х	: WB	100	818	TRANSLATION	CAR	WESTERN	GEAR	3421	BLDG	& AREA -W	B TRAN	S CARS	
3906139	х	C WB	100	818	TRANSLATION	CAR	WESTERN	GEAR	3435	BLDG	& AREA -L	B TRAN	IS CARS	
3906140	х	WB	0		UNASSIGNED		N/A		N/A	вотн	EN/WN YAR	D TRAN	IS CARS	
3906141	х	C WB	100	818	TRANSLATION	CAR	WESTERN	GEAR	3458	BLDG	& AREA -	B TRAN	IS CARS	
3906142	x	: WB	0	0	UNASSIGNED		N/A		N/A	BOTH	EN/WN YAR	D TRAN	IS CARS	
3906143	х	: WB	100	818	TRANSLATION	CAR	WESTERN	GEAR	3354	BLDG	& AREA -	B TRAN	S CARS	
3906144	х	: WB	0	0	UNASSIGNED		N/A		N/A	вотн	EN/WN YAR	D TRAN	IS CARS	
3906145	Хί	: WB	0	0	UNASSIGNED		N/A		N/A	вотн	EN/WN YAR	_	IS CARS	
3906146	х	: WB	0		UNASSIGNED		N/A		N/A	BOTH	EN/WN YAR		IS CARS	
3906147	xc	: WB	0		UNASSIGNED		N/A		N/A	BOTH	EN/WN YAR		IS CARS	
3906148	х	: WB	100		TRANSLATION	CAR	WESTERN	GEAR	3320	BLDG	& AREA -V	B TRAN	IS CARS	

ISE1 IKK E/W	LUC		MANUFACTURERS	SERIAL LUCATION	CATEGORY
IMBER CEO	CDE C/C	EQUIP DESCRIPTION	NAME	NO. DESCRIPTION	DESCRIPTION CARN
			•••••		***************************************
1906149 X C WB	0 (UNASSIGNED	N/A	N/A BOTH EN/WN YARD	TRANS CARS
1906150 X C WB	100 818	3 TRANSLATION CAR	WESTERN GEAR	3341 BLDG & AREA -WB N/A BOTH EN/WN YARD	TRANS CARS
1906151 X C WB	0 (UNASSIGNED	N/A	N/A BOTH EN/WN YARD	TRANS CARS
3906152 X C WB	100 818	3 TRANSLATION CAR	WESTERN GEAR	3343 BLDG & AREA -WB	TRANS CARS
				3378 BLDG & AREA -WB	
3906154 X C WB	_			N/A BOTH EN/WN YARD	
				3493 BLDG & AREA •WB	
				3355 BLDG & AREA -WB	
				3340 BLDG & AREA -WB	
3906158 X C WB					
		·=-	N/A LIECTEDN CEAD	N/A BOTH EN/WN YARD	
1006157 X C WD	0 0	INVESTMENT OF	WESTERN GEAR	N/A BLDG & AREA -WB	TRANS CARS
1900100 X C WB	100 919	D UNASSIGNED	N/A	7/EZ DIGO 9 ADEA LID	TRANS CARS
2004442 V C HD	100 010	P TRANSLATION CAR	WESTERN GEAR	3433 BLUG & AREA *WB	TRANS CARS
2004147 V C UD	100 010	S TRANSLATION CAK	WESTERN GEAR	3478 BLUG & AREA -WB	TRANS CARS
3900103 X C WB	100 616	S INANSLATION CAR	WESTERN GEAR	N/A BOTH EN/WN YARD 3453 BLDG & AREA -WB 3478 BLDG & AREA -WB 3297 BLDG & AREA -WB N/A BOTH EN/WN YARD	TRANS CARS
3906164 X C WB	400.04	U UNASSIGNED	N/A	N/A BOTH EN/WN YARD 3362 BLDG & AREA -WB	TRANS CARS
3900103 X C WB	100 010	D TRANSLATION CAR	WESTERN GEAR	3305 REAG & WEY - MR	TRANS CARS
3900100 X C WB	100 818	B IRANSLATION CAR	WESTERN GEAR	3359 BLDG & AREA -WB	TRANS CARS
3906167 X C WB	0 1	U UNASSIGNED	N/A	N/A BOTH EN/WN YARD	TRANS CARS
				N/A BOTH EN/WN YARD	
				3356 BLDG & AREA -WB	
				3391 BLDG & AREA -WE	
				3303 BLDG & AREA -WE	
3906172 X C WB	U	U UNASSIGNED	N/A	N/A BOTH EN/WN YARD	TRANS CARS
3906173 X C WB	400.04	U UNASSIGNED	N/A	N/A BOTH EN/WN YARD 3383 BLDG & AREA -WE 3347 BLDG & AREA -WE 3343 BLDG & AREA -WE 3371 BLDG & AREA -WE 3309 BLDG & AREA -WE 3295 BLDG & AREA -WE 3437 BLDG & AREA -WE	TRANS CARS
3906174 X C WB	100 81	B TRANSLATION CAR	WESTERN GEAR	3383 BLDG & AREA -WE	TRANS CARS
3906175 X C WB	100 81	8 TRANSLATION CAR	WESTERN GEAR	3347 BLDG & AREA -WE	TRANS CARS
3906176 X C WB	100 81	B TRANSLATION CAR	WESTERN GEAR	3343 BLDG & AREA -WE	TRANS CARS
3906177 X C WB	100 81	8 TRANSLATION CAR	WESTERN GEAR	3371 BLDG & AREA -WE	TRANS CARS
3906178 X C WB	100 81	8 TRANSLATION CAR	WESTERN GEAR	3309 BLDG & AREA -WE	TRANS CARS
3906179 X C WB	100 81	8 TRANSLATION CAR	WESTERN GEAR	3295 BLDG & AREA -WE	TRANS CARS
3906180 X C WB	100 81	8 TRANSLATION CAR	WESTERN GEAR	3437 BLDG & AREA -WE	TRANS CARS
3906181 X C WB	100 81	8 TRANSLATION CAR	WESTERN GEAR	J410 BLUG & AREA "WE	TRANS CARS
3906182 X C WB	0	O UNASSIGNED	N/A	N/A BOTH EN/WN YARD	TRANS CARS
3906183 X C WB	U	U UNASSIGNED	N/A	N/A BOTH EN/WN YARD	TRANS CARS
3906184 X C WB	100 81	8 TRANSLATION CAR	WESTERN GEAR	3436 BLDG & AREA -WE	TRANS CARS
3906185 X C WB	100 81	8 TRANSLATION CAR	WESTERN GEAR	3420 BLDG & AREA -WE	TRANS CARS
3906186 X C WB	0	O UNASSIGNED	N/A	N/A BOTH EN/WN YARD	TRANS CARS
3906191 X C WB	0	O UNASSIGNED	N/A	N/A BOTH EN/WN YARD	TRANS CARS
3906192 X C WB	100 81	8 TRANSLATION CAR	WESTERN GEAR	3501 BLDG & AREA -WE	TRANS CARS
3906193 X C WB	100 81	B TRANSLATION CAR	WESTERN GEAR	3434 BLDG & AREA -WB	TRANS CARS
3906194 X C WB	0	O UNASSIGNED	N/A	N/A BOTH EN/WN YARD	
3906195 X C WB	100 81	8 TRANSLATION CAR	WESTERN GEAR	3463 BLDG & AREA -WB	
3906196 X C WB		8 TRANSLATION CAR	WESTERN GEAR	3482 BLDG & AREA -WB	
3906197 X C WB		O UNASSIGNED	N/A	N/A BOTH EN/WN YARD	
3906198 X C WB		O UNASSIGNED	N/A	N/A BOTH EN/WN YARD	
3906199 X C WB	_	O UNASSIGNED	N/A	N/A BOTH EN/WN YARD	
3906200 X C WB		B TRANSLATION CAR	WESTERN GEAR	3506 BLDG & AREA -WB	
3906201 X C WB		B TRANSLATION CAR	WESTERN GEAR	3505 BLDG & AREA -WB	
	•			22-2-2-3 W (MEN HD	OANO

MANUFACTURERS SERIAL LOCATION CATEGORY

SET TRK E/W LOC

	ASSET	TRK	E/W	LOC				MANUFACT	URERS	SERIAL	ı	LOCATIO	n	CATEGO	RY		
	NUMBER	CEO		CDE	C/C	EQUIP DESCRIP		NAME		NO.				DESCRI	PTION	CAR	N
*	3906202	X C	WB	0	0	UNASSIGNED		N/A		N/A	BOTH I	EN/WN Y	'ARD	TRANS	CARS		
	3906203	хс	WB	100	818	TRANSLATION C	CAR	N/A WESTERN WESTERN	GEAR	3479	BLDG 8	& AREA	-WB	TRANS	CARS		
	3906204	хс	WB	100	818	TRANSLATION C	CAR	WESTERN	GEAR	3511	BLDG 8	& AREA	-WB	TRANS	CARS		
	3906205					UNASSIGNED		N/A		N/A	BOTH 1	EN/WN Y	ARD	TRANS	CARS		
						TRANSLATION C		WESTERN						TRANS	CARS		
	3906210	хс	WB	100	818	TRANSLATION C		WESTERN				& AREA		TRANS	CARS		
	3906211	хс	WB			TRANSLATION C	CAR	WESTERN			BLDG	& AREA	-WB	TRANS	CARS		
	3906212	хс	WB			TRANSLATION C		WESTERN			BLDG	& AREA	-WB	TRANS	CARS		
	3906213					TRANSLATION C		WESTERN				& AREA		TRANS			
						TRANSLATION C		WESTERN				& AREA		TRANS			
	3906215	X C	WB			TRANSLATION C		WESTERN				& AREA		TRANS			
*	3906216	хс	WB			UNASSIGNED								TRANS			
	3906217					UNASSIGNED		N/A				EN/WN Y		TRANS			
						TRANSLATION C						& AREA		TRANS			
						TRANSLATION C						& AREA		TRANS			
						TRANSLATION C						& AREA		TRANS			
	3906221			_		UNASSIGNED		N/A		•		EN/WN 1		TRANS			
	3906222					UNASSIGNED		N/A				EN/WN Y		TRANS			
						TRANSLATION O		WESTERN	GEAR			& AREA		TRANS			
	3906224				_	UNASSIGNED		N/A		-		EN/WN Y		TRANS			
	3906225					UNASSIGNED		N/A				EN/WN Y		TRANS			
						TRANSLATION O		WESTERN				& AREA		TRANS			
	3906227			_		TRANSLATION (WESTERN				& AREA		TRANS			
	3906228					UNASSIGNED								TRANS			
	3906229					TRANSLATION (WESTERN				& AREA		TRANS			
•				_		TRANSLATION (WESTERN				& AREA		TRANS			
	3906301					UNASSIGNED								TRANS			
	3906302					TRANSLATION (& AREA		TRANS	_		
	3906303			_		TRANSLATION (& AREA		TRANS			
	3906304					UNASSIGNED		•	0548			EN/WN '		TRANS			
						TRANSLATION O		WESTERN				& AREA		TRANS			
						TRANSLATION (CAD	WESTERN	CEAR			& AREA		TRANS			
						TRANSLATION (WESTERN	CEAD			& AREA		TRANS			
	3906309					TRANSLATION (LAK	N/A	GEAR			& AREA EN/WN '		TRANS			
				_				· · ·				· · ·					
	3906310 3906311			100		UNASSIGNED TRANSLATION (CAD	N/A	CEAD			EN/WN ' & AREA		TRANS			
	3906311					TRANSLATION (WESTERN WESTERN				& AREA		TRANS			
	3906313					TRANSLATION (WESTERN				& AREA		TRANS			
	3906314					TRANSLATION (WESTERN				& AREA		TRANS			
	3906315			0		UNASSIGNED	ÇAK	N/A	denit			EN/WN		TRANS			
	3906316					TRANSLATION (CAD	WESTERN	CEAD			& AREA		TRANS			
	3906317				_	TRANSLATION (WESTERN				& AREA		TRANS	_		
	3906318			0		UNASSIGNED		N/A	apul.			EN/WN ,		TRANS			
	3906319					TRANSLATION (CAR	WESTERN	GEAP			& AREA		TRANS			
								WESTERN				& AREA & AREA		TRANS			
	3906320					TRANSLATION (WESTERN				& AREA		TRANS			
	3906321			_		TRANSLATION (GEAK			EN/WN '		TRANS			
	3906322			0	_	UNASSIGNED		N/A									
	3906323	χÜ	WD	0	U	UNASSIGNED		N/A		N/A	חוטם	EN/WN	יאגט	TRANS	CARS		

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					EQUIP DESCRIPT			UKLKO			CRIPTIC		DESCRI		CARN
JMBER					EQUIP DESCRIP										
3006324	хс	UR	100	818	TRANSLATION CA TRANSLATION CA TRANSLATION CA TRANSLATION CA TRANSLATION CA	AR	WESTERN	GEAR	3240	BLDG 8	& AREA -	W B	TRANS (CARS	
3906325	X C	UR	100	818	TRANSLATION C	AR	WESTERN	GEAR	3101	BLDG 8	AREA -	WB	TRANS (
3906326	ХC	WB.	100	818	TRANSLATION C	AR	WESTERN	GEAR	3063	BLDG 8	AREA -	-WB	TRANS (CARS	
3906327	хс	UB.	100	818	TRANSLATION C	AR	WESTERN	GEAR	3161	BLDG 8	& AREA	-WB	TRANS (CARS	
3906328	хс	WB	100	818	TRANSLATION C	AR	WESTERN	GEAR	3267	BLDG 8	& AREA	-WB	TRANS (CARS	
3906329	X C	WB	100	818	TRANSLATION C	AR	WESTERN	GEAR	3159	REDR 9	Z AKEA .	.MR	TRANS (CARS	
3906330	хс	WB	100	818	TRANSLATION C	AR	WESTERN	GEAR	3224	BLDG &	& AREA	-WB	TRANS	CARS	
3906331	хс	WB	100	818	TRANSLATION C	AR	WESTERN	GEAR	3220	BLDG &	& AREA	-WB	TRANS	CARS	
3906332	ХC	WB	100	818	TRANSLATION C	AR	WESTERN	GEAR	3140	BLDG 8	& AREA	-WB	TRANS	CARS	
					UNASSIGNED				N/A				TRANS	CARS	
					UNASSIGNED				N/A	BOTH I	EN/WN Y	ARD	TRANS	CARS	
					TRANSLATION C		WESTERN	GEAR	3186	BLDG 8	& AREA	-WB	TRANS	CARS	
					TRANSLATION C								TRANS	CARS	
					TRANSLATION C	AR	WESTERN	GEAR	3146	BLDG 8	& AREA	-WB	TRANS	CARS	
3906338	ХС	WB	100	818	TRANSLATION C	AR	WESTERN	GEAR	3277	BLDG 8	& AREA	-WB	TRANS	CARS	
3906339	хс	WB	100	818	TRANSLATION C	AR	WESTERN	GEAR	3284	BLDG 8	& AREA	-WB	TRANS	CARS	
3906340	хс	WB	0	0	UNASSIGNED		N/A		N/A	BOTH	EN/WN Y	ARD	TRANS	CARS	
3906341	хс	WB	100	818	TRANSLATION C	AR	WESTERN	GEAR	3269	BLDG (& AREA	-WB	TRANS	CARS	
3906342	X C	WB	0	0	UNASSIGNED		N/A		N/A	BOTH	EN/WN Y	ARD	TRANS	CARS	
3906343	ХС	WB	100	818	TRANSLATION C	AR			3269	BLDG	& AREA	-WB	TRANS	CARS	
3906344	хс	WB	100	818	TRANSLATION C	CAR	WESTERN	GEAR	3100	BLDG	& AREA	-WB	TRANS	CARS	
3906345	ХС	WB			UNASSI GNED		-		N/A	BOTH	EN/WN Y	ARD	TRANS	CARS	
3906346	X C	WB			TRANSLATION C		WESTERN			BLDG	& AREA	-WB	TRANS	CARS	
3906347	' X C	WB	100	818	TRANSLATION C	CAR	WESTERN	GEAR	3202	BLDG	& AREA	-WB	TRANS	CARS	
3906348	XC	WB	100	818	TRANSLATION C	CAR	WESTERN	GEAR	3149	BLDG	& AREA	-WB	TRANS	CARS	
3906349	XC	WB	100	818	TRANSLATION C	CAR	WESTERN	GEAR	3285	BLDG	& AREA	-WB	TRANS	CARS	
3906350	XC	: WB	100	818	TRANSLATION C	CAR			2125				TRANS	CARS	
3906351	XC	WB			TRANSLATION C				3265				TRANS	CARS	
3906352	2 X C	: WB	100	818	TRANSLATION C	CAR		GEAR					TRANS	CARS	
3906353	5 X C	: WB			UNASSIGNED						EN/WN Y		TRANS	CARS	
3906354					UNASSIGNED		N/A		N/A	BOTH	EN/WN Y	ARD	TRANS	CARS	
3906355	5 X C	WB	100	818	TRANSLATION (CAR	WESTERN			BLDG	& AREA	-WB	TRANS	CARS	
3906356	5 X C	: WB	100	818	TRANSLATION (TRANSLATION (TRANSLATION (CAR	WESTERN	GEAR	3103	BLDG	& AREA	-WB	TRANS		
3906357	7 X C	: WB	100	818	TRANSLATION (CAR	WESTERN	GEAR	3153				TRANS		
											& AREA		TRANS		
3906359					TRANSLATION (CAR	WESTERN	GEAR			& AREA		TRANS		
3906360			0		UNASSIGNED		N/A				EN/WN Y		TRANS		
390636			C		UNASSIGNED		N/A				EN/WN Y		TRANS		
3906367			0		UNASSIGNED		N/A		-		EN/WN Y		TRANS		
3906363					TRANSLATION (CAR	WESTERN	GEAR			& AREA		TRANS		
3906364			0		UNASSIGNED		N/A		=		EN/WN Y		TRANS		
390636			200		UNASSIGNED		N/A				EN/WN Y		TRANS		
3906366					TRANSLATION (WESTERN				& AREA		TRANS		
390636					TRANSLATION (WESTERN				& AREA		TRANS		
3906368			_		TRANSLATION (UAR	WESTERN	GEAR			& AREA		TRANS		
3906369			400		UNASSIGNED		N/A		· ·		EN/WN Y		TRANS		
390637					TRANSLATION (WESTERN				& AREA		TRANS		
390637					TRANSLATION (WESTERN				& AREA		TRANS		
390637	2 X (U WB	100	318 נ	TRANSLATION (LAK	WESTERN	GEAK	3216	שנטש	& AREA	- MR	TRANS	CAKS	

								UDEDO	CERTAL		IOPATIO	18.7	CATECO	ov	
							MANUFACT		NO.					PTION	CARN
NUMBER					EQUIP DESCRI		NAME		NU.					-110N	CARN
					***********								TRANS		
3906373	X C	MR	100	010	TRANSLATION	CAR	MESIEKN	CEAD	NO TAG	BIDG .	& AREA	-UR	TRANS		
3906374	X L	WB	100	010	TRANSLATION TRANSLATION	CAD	HESTERN	CEAD	3040	BIDG	& ADFA	-UR	TRANS		
200373	X C	WB	100	010	INACCIONED	CAR	MESTERM	GEAK	N/A	BOTH	ENATH A	ARD.	TRANS		
3900370	X C	MD	100	010	UNASSIGNED TRANSLATION	CAD	N/A	CEAD	3072	RIDG	& APFA	-UR	TRANS		
39003 <i>[[</i>	X C	WB	100	010	TRANSLATION	CAD	WESTERN	CEAD	3072	BIDG	& ARFA	-UR	TRANS		
			_	_		CAR	N/A	GLAN	N/A	BUTH	EN/UN I	/ARD	TRANS		
3900319	X L	MD	100	010	UNASSIGNED TRANSLATION	CAD	UECTEDN	CEAD	3180	BIDG	& APFA	-UR	TRANS		
					TRANSLATION								TRANS		
								GLAK					TRANS		
					UNASSIGNED TRANSLATION		•		-				TRANS		
3906384					UNASSIGNED		N/A		N/A				TRANS		
					TRANSLATION								TRANS		
													TRANS		
3900300	, y c	WD	100	010	TRANSLATION	CAR	N/A	GLAN	N/A	BOTH	EN/WN '	YARD			
2004280	, v c	LID	100	212	TRANSIATION	CAP	UESTERN	GEAR	3084	BLDG	& ARFA	-WB	TRANS		
2006200		WD.	100	818	TRANSLATION	CAR	UESTERN	GEAR	3089	BLDG	& AREA	-WB	TRANS		
3700370	· v c	MD	100	212	TRANSLATION	CAR	UESTERN	GFAR	3093	BLDG	& AREA	-WB	TRANS		
3900391	,	MD.	100	818	TRANSLATION	CAR	WESTERN	GEAR	3252	BLDG	& AREA	-WB	TRANS		
2002302		MD.	100	818	UNASSIGNED TRANSLATION TRANSLATION TRANSLATION TRANSLATION TRANSLATION TRANSLATION TRANSLATION	CAR	WESTERN	GEAR	3157	BLDG	& AREA	-WB	TRANS		
305305	XC	UR	100	818	TRANSLATION	CAR	WESTERN	GEAR	6158	BLDG	& AREA	-WB	TRANS		
300374	. x c	UR	0	ำ	UNASSIGNED		N/A		N/A	BOTH	EN/WN	YARD	TRANS		
					TRANSLATION										
3906397	,	UR	.00	0.0	UNASSIGNED	-	N/A		N/A	вотн	EN/WN	YARD	TRANS		
					TRANSLATION						& AREA				
					TRANSLATION						& AREA			CARS	
					UNASSIGNED					вотн	EN/WN	YARD	TRANS	CARS	
					TRANSLATION						& AREA		TRANS	CARS	
					TRANSLATION					BLDG	& AREA	-WB	TRANS	CARS	
					UNASSIGNED		N/A			BOTH	EN/WN	YARD	TRANS	CARS	
3906404	xc	WB	100	818	TRANSLATION	CAR	WESTERN	GEAR	3177	BLDG	& AREA	-WB	TRANS	CARS	
3906405	XC	WB	100	818	TRANSLATION TRANSLATION TRANSLATION TRANSLATION TRANSLATION	CAR	WESTERN	GEAR	3078	BLDG	& AREA	-WB	TRANS	CARS	
3906406	S X C	WB	100	818	TRANSLATION	CAR	WESTERN	GEAR	3278	BLDG	& AREA	-WB	TRANS	CARS	
3906407	' X C	WB	100	818	TRANSLATION	CAR	WESTERN	GEAR	3060	BLDG	& AREA	-WB	TRANS	CARS	
3906408	3 X C	WB	100	818	TRANSLATION	CAR	WESTERN	GEAR	3204	BLDG	& AREA	-WB	TRANS	CARS	
3906409			0		UNASSIGNED		N/A		N/A	BOTH	EN/WN	YARD	TRANS	CARS	
3906410	ХС	WB	100	818	TRANSLATION	CAR	WESTERN	GEAR	3207	BLDG	& AREA	-WB	TRANS	CARS	
3906411	ı x c	WB	100	818	TRANSLATION	CAR	WESTERN	GEAR	3169	BLDG	& AREA	-WB	TRANS	CARS	
3906412	2 x c	WB	100	818	TRANSLATION	CAR	WESTERN	GEAR	3092	BLDG	& AREA	-WB	TRANS	CARS	
3906413	s x c	WB	0	0	UNASSIGNED		N/A		N/A	BOTH	EN/WN	YARD	TRANS	CARS	
3906414	ХС	WB	100	818	TRANSLATION	CAR	WESTERN	GEAR	3106	BLDG	& AREA	-WB	TRANS	CARS	
3906415	хс	WB	100	818	TRANSLATION	CAR	WESTERN	GEAR	4120	BLDG	& AREA	-WB	TRANS	CARS	
3906416	s x c	WB	100	818	TRANSLATION	CAR	WESTERN	GEAR	3067	BLDG	& AREA	-WB	TRANS	CARS	
3906417	7 X C	WB	0	0	UNASSIGNED		N/A		N/A	BOTH	EN/WN	YARD	TRANS	CARS	
3906418	3 X C	WB	100	818	TRANSLATION	CAR	WESTERN	GEAR	3199	BLDG	& AREA	-WB	TRANS	CARS	
3906419	ХС	WB	100	818	TRANSLATION	CAR	WESTERN	GEAR	3142	BLDG	& AREA	-WB	TRANS	CARS	
3906420			100	818	TRANSLATION	CAR	WESTERN	GEAR	3075	BLDG	& AREA	-WB	TRANS	CARS	
3906421			100	818	TRANSLATION	CAR	WESTERN	GEAR	3073	BLDG	& AREA	-WB	TRANS	CARS	
390642	2 X C	WB	100	818	TRANSLATION	CAR	WESTERN	GEAR	3201	BLDG	& AREA	-WB	TRANS	CARS	

SSET TRK E/W	LUC		MANUFACIUKERS	SERIAL LOCATION	CATEGORY	
UMBER CEO	CDE C/C	EQUIP DESCRIPTION	NAME	NO. DESCRIPTION	DESCRIPTION	CARN
	•••	***************************************		NO. DESCRIPTION	************	
3906423 X C WB	100 818	TRANSLATION CAR	WESTERN GEAR	3119 BLDG & AREA -WB	TRANS CARS	
				3066 BLDG & AREA -WB	TRANS CARS	
				3033 BLDG & AREA -WB	TRANS CARS	
		TRANSLATION CAR			TRANS CARS	
		TRANSLATION CAR				
					TRANS CARS	
		TRANSLATION CAR			TRANS CARS	
		TRANSLATION CAR			TRANS CARS	
		TRANSLATION CAR			TRANS CARS	
				3122 BLDG & AREA -WB	TRANS CARS	
3906433 X C WB				3213 BLDG & AREA -WB	TRANS CARS	
3906434 X C WB	0 0	UNASSIGNED		N/A BOTH EN/WN YARD	TRANS CARS	
3906435 X C WB	0 0	UNASSIGNED	N/A	N/A BOTH EN/WN YARD	TRANS CARS	
3906436 X C WB	100 818	TRANSLATION CAR	WESTERN GEAR	3110 BLDG & AREA -WB	TRANS CARS	
		TRANSLATION CAR			TRANS CARS	
3906438 X C WB	100 818	TRANSLATION CAR	WESTERN GEAR	3154 BLDG & AREA -WB	TRANS CARS	
3906439 X C WB	100 818	TRANSLATION CAR	WESTERN GEAR	3214 BLDG & AREA -WB	TRANS CARS	
3906440 X C WB	100 818	TRANSLATION CAR	WESTERN GEAR	3231 BLDG & AREA -WB	TRANS CARS	
		TRANSLATION CAR	WESTERN GEAR	3263 BLDG & AREA -WB	TRANS CARS	
3906442 X C WB	100 818	TRANSLATION CAR	WESTERN GEAR		TRANS CARS	
3906443 X C WB		TRANSLATION CAR			TRANS CARS	
3906444 X C WB		TRANSLATION CAR			TRANS CARS	
3906445 X C WB		TRANSLATION CAR			TRANS CARS	
				3216 BLDG & AREA -WB		
					TRANS CARS	
3906448 X C WB				3218 BLDG & AREA -WB	TRANS CARS	
3906449 X C WB				N/A BOTH EN/WN YARD	TRANS CARS	
	0 0	OUNASSIGNED	N/A	N/A BOTH EN/WN YARD	TRANS CARS	
3906450 X C WB	400 040	UNASSIGNED	N/A	N/A BOTH EN/WN YARD	TRANS CARS	
3900451 X C WB	100 818	IKANSLATION CAR	WESTERN GEAR	3230 BLDG & AREA -WB 3126 BLDG & AREA -WB	TRANS CARS	
3906452 X C WB	100 818	IRANSLATION CAR	WESTERN GEAR	3126 BLDG & AREA -WB	TRANS CARS	
3700433 A C WD	υι) UNASSIGNED	N/A	N/A BUIN EN/WN YARD	TRANS CARS	
				3225 BLDG & AREA -WB	TRANS CARS	
3906455 X C WB	0 (N/A	N/A BOTH EN/WN YARD	TRANS CARS	
		3 TRANSLATION CAR			TRANS CARS	
		3 TRANSLATION CAR			TRANS CARS	
		3 TRANSLATION CAR			TRANS CARS	
3906459 X C WB	100 818	3 TRANSLATION CAR	WESTERN GEAR	3249 BLDG & AREA -WB	TRANS CARS	
3906460 X C WB	0 (UNASSIGNED	N/A	N/A BOTH EN/WN YARD	TRANS CARS	
3906461 X C WB	0 0	UNASSIGNED	N/A	N/A BOTH EN/WN YARD	TRANS CARS	
3906462 X C WB	0 (UNASSIGNED	N/A	N/A BOTH EN/WN YARD	TRANS CARS	
3906463 X C WB	0 (UNASSIGNED	N/A	N/A BOTH EN/WN YARD	TRANS CARS	
3906464 X C WB	100 818	TRANSLATION CAR	WESTERN GEAR	3197 BLDG & AREA -WB	TRANS CARS	
3906465 X C WB		UNASSIGNED	N/A	N/A BOTH EN/WN YARD	TRANS CARS	
3906466 X C WB		UNASSIGNED	N/A	N/A BOTH EN/WN YARD	TRANS CARS	
3906467 X C WB		UNASSIGNED	N/A	N/A BOTH EN/WN YARD		
3906468 X C WB		UNASSIGNED UNASSIGNED		N/A BOTH EN/WN YARD	TRANS CARS	
3906469 X C WB		3 TRANSLATION CAR	N/A		TRANS CARS	
3906470 X C WB			WESTERN GEAR	3342 BLDG & AREA -WB	TRANS CARS	
		UNASSIGNED	N/A	N/A BOTH EN/WN YARD	TRANS CARS	
3906471 X C WB		3 TRANSLATION CAR	WESTERN GEAR	3226 BLDG & AREA -WB	TRANS CARS	
3906472 X C WB	וטע אונ	3 TRANSLATION CAR	WESTERN GEAR	3077 BLDG & AREA -WB	TRANS CARS	

LOCATION

CATEGORY

SSET

TRK E/W LOC

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		- 41				MANUEACTI	IDEDC	CEDIAL		LOCATION	CATEC	OBY	
ASSET					EQUIP DESCRIPTION					LOCATION SCRIPTION		IPTION	CARN
NUMBER					EQUIF DESCRIPTION	nanc							
					TRANSLATION CAR			3228	BLDG	& AREA -WB	TRANS	CARS	
3906474	хс	WB	100	818	TRANSLATION CAR TRANSLATION CAR TRANSLATION CAR	WESTERN	GEAR	3170	BLDG	& AREA -WB	TRANS		
3906475	ХC	WB	100	818	TRANSLATION CAR	WESTERN	GEAR	3144	BLDG	& AREA -WB	TRANS		
3906476	ХC	WB	0	0	UNASSIGNED	N/A		N/A	BOTH	EN/WN YARD	TRANS	CARS	
					TRANSLATION CAR	WESTERN	GEAR	3115	BLDG	& AREA -WB	TRANS	CARS	
3906478					TRANSLATION CAR					& AREA -WB		CARS	
3906479	хс	WB	100	818	TRANSLATION CAR	WESTERN	GEAR	3147	BLDG .	& AREA -WB	TRANS	CARS	
3906480	хс	WB	100	818	TRANSLATION CAR				BLDG	& AREA -WB	TRANS	CARS	
3906481	x c	WB	0	0	UNASSIGNED	N/A		N/A	BOTH	EN/WN YARD	TRANS	CARS	
3906482	хс	WB	100	818	TRANSLATION CAR	WESTERN	GEAR	3054	BLDG	& AREA -WB	TRANS	CARS	
3906483	x c	WB	100	818	TRANSLATION CAR	WESTERN	GEAR	3275	BLDG	& AREA -WB	TRANS	CARS	
3906484	x c	WB	100	818	TRANSLATION CAR	WESTERN	GEAR	3256	BLDG	& AREA -WB	TRANS	CARS	
3906485	χс	WB	0	0	UNASSIGNED	N/A		N/A	BOTH	EN/WN YARD	TRANS	CARS	
3906486		WB	0	0	UNASSIGNED	N/A				EN/WN YARD		CARS	
3906487	X C	WB	100	818	TRANSLATION CAR	WESTERN	GEAR	3141	BLDG	& AREA -WB	TRANS	CARS	
3906488	X C	WB	100	818	TRANSLATION CAR	WESTERN	GEAR	3102	BLDG	& AREA -WB	TRANS	CARS	
3906489		WB	0	0	UNASSIGNED	N/A		N/A	BOTH	EN/WN YARD	TRANS	CARS	
3906490	X C	WB	100	818	TRANSLATION CAR	WESTERN	GEAR	3239	BLDG	& AREA -WB	TRANS	CARS	
3906491	ΧU	MR	U	U	UNASSIGNED					EN/WN YARD		CARS	
3906492	X C	WB	100	818	TRANSLATION CAR				BLDG	& AREA -WB	TRANS	CARS	
3906493	X C	WB	100	818	TRANSLATION CAR	WESTERN	GEAR	3281	BLDG	& AREA -WE	TRANS	CARS	
3906494	X C	WB	100	818	TRANSLATION CAR	WESTERN			BLDG	& AREA -WE	TRANS	CARS	
					TRANSLATION CAR				BLDG	& AREA -WE	TRANS	CARS	
3906496	X C	WB	100	818	TRANSLATION CAR				BLDG	& AREA -WE	TRANS	CARS	
3906497	ΧC	WB	100	818	TRANSLATION CAR					& AREA -WE		CARS	
					UNASSIGNED				BOTH	EN/WN YARD	TRANS	CARS	
					UNASSIGNED				BOTH	EN/WN YARD	TRANS	CARS	
					TRANSLATION CAR				BLDG	& AREA -WE	TRANS	CARS	
3906501	X C	WB	100	818	TRANSLATION CAR			3121	BLDG	& AREA -WE	TRANS	CARS	
3906502					UNASSIGNED					EN/WN YARD		CARS	
3906503	X C	WB	100	818	TRANSLATION CAR	WESTERN	GEAR	3058	BLDG	& AREA -WE	TRANS	CARS	
3906504				0	UNASSIGNED	N/A				EN/WN YARD		CARS	
3906505					UNASSIGNED	N/A		-		EN/WN YARD		CARS	
3906506			0	0	UNASSIGNED	N/A		-		EN/WN YARD		CARS	
3906507					UNASSIGNED	N/A				EN/WN YARD		CARS	
3906508					TRANSLATION CAR	WESTERN				& AREA -WE		CARS	
3906509			_		TRANSLATION CAR	WESTERN	GEAR			& AREA -WE		CARS	
3906510			0		UNASSIGNED	N/A				EN/WN YARD		CARS	
3906511			_		TRANSLATION CAR	WESTERN	GEAR			& AREA -WE		CARS	
3906512			0		UNASSIGNED	N/A		-		EN/WN YARD		CARS	
3906513			0		UNASSIGNED	N/A				EN/WN YARD		CARS	
3906514			0		UNASSIGNED	N/A	0540			EN/WN YARD		CARS	
3906515					TRANSLATION CAR	WESTERN	GEAK			& AREA -WE		CARS	
3906516			0		UNASSIGNED	N/A				EN/WN YARD		CARS	
3906517			0		UNASSIGNED	N/A				EN/WN YARD		CARS	
3906518			100		UNASSIGNED	N/A	0540			EN/WN YARD		CARS	
3906519					TRANSLATION CAR	WESTERN				& AREA -WE		CARS	
3906520					TRANSLATION CAR	WESTERN				& AREA -WE		CARS	
3906521	x C	MR	100	010	TRANSLATION CAR	WESTERN	GEAK	3114	סראף	& AREA -WE	IKANS	CARS	

CET TOVE (II	LOC		MANITEACTURERS	SERIAL LOCATION	CATEGORY
SET TRK E/W MBER CEO		EUITO DESCRIPTION	NAME	NO. DESCRIPTION	DESCRIPTION CARN
MBER CEO				NO. DESCRIPTION	
			N/A		TRANS CARS
:006522 X C WB	100 818	TRANSLATION CAR	WESTERN GEAR	3107 BLDG & AREA -WB	TRANS CARS
1906524 X C UB	100 818	TRANSLATION CAR	WESTERN GEAR	3107 BLDG & AREA -WB 3245 BLDG & AREA -WB	TRANS CARS
1906525 X C VB	100 818	TRANSLATION CAR	WESTERN GEAR	3182 BLDG & AREA -WB	TRANS CARS
1906526 X C WB				N/A BOTH EN/WN YARD	TRANS CARS
		R TRANSLATION CAR. NON-F	WGREER HYD	N/A (MOBLDG & AREA -WB	TRANS CARS
				N/A (MOBLDG & AREA -WB	TRANS CARS
				129 BLDG & AREA -WB	TRANS CARS
TONAKNI Y C UR	100 819	R JACKING CAD	UESTERN GEAR	154 RIDG & ARFA -UR	TRANS CARS
5906602 X C WB	0 (UNASSIGNED	N/A	N/A BOTH EN/WN YARD	TRANS CARS
3906603 X C WB	100 818	B JACKING CAR	WESTERN GEAR	141 BLDG & AREA -WB	TRANS CARS
3906604 X C WB	100 818	B JACKING CAR	WESTERN GEAR	143 BLDG & AREA -WB	TRANS CARS
3906605 X C WB	100 818	B JACKING CAR	WESTERN GEAR	B118 BLDG & AREA -WB	TRANS CARS
3906606 X C NR	100 81	S JACKING CAR	WESTERN GEAR	156 BLDG & AREA -WB	TRANS CARS
3906607 X C WR	100 81	B JACKING CAR	GREER HYD E505	109 BLDG & AREA -WB	TRANS CARS
3906608 X C WB	100 81	B JACKING CAR	GREER HYD ESOS	141 BLDG & AREA -WB	TRANS CARS
3906609 X C WB	100 81	B JACKING CAR	GREER HYD E505	N/A BOTH EN/WN YARD 141 BLDG & AREA -WB 143 BLDG & AREA -WB B118 BLDG & AREA -WB 156 BLDG & AREA -WB 109 BLDG & AREA -WB 141 BLDG & AREA -WB 161 BLDG & AREA -WB 124 BLDG & AREA -WB	TRANS CARS
3906610 X C WB	100 81	B JACKING CAR	GREER HYD E505	124 BLDG & AREA -WB	TRANS CARS
3906611 X C WB	100 81	B JACKING CAR	GREER HYD E505	3025 BLDG & AREA -WB	TRANS CARS
3906612 X C WB	100 81	B JACKING CAR	GREER HYD ESOS	128 BLDG & AREA -WB	
				114 BLDG & AREA -WB	
		B JACKING CAR			
					TRANS CARS
				138 BLDG & AREA -WB	TRANS CARS
				132 BLDG & AREA -WB	TRANS CARS
				102 BLDG & AREA -WB	TRANS CARS
3004410 Y C UR	100 81	R JACKING CAP	COPED HYD ESOS	101 RIDG & AREA -UR	TRANS CARS
3906620 X C WB	100 81	B JACKING CAR	GREER HYD E505	101 BLDG & AREA -WB	TRANS CARS
3906621 X C WB	100 81	B JACKING CAR	GREER HYD E505	101 BLDG & AREA -WB 148 BLDG & AREA -WB 106 BLDG & AREA -WB 153 BLDG & AREA -WB 108 BLDG & AREA -WB 120 BLDG & AREA -WB 3005 BLDG & AREA -WB	TRANS CARS
3906622 X C WB	100 81	8 JACKING CAR	GREER HYD E505	106 BLDG & AREA -WB	TRANS CARS
3906623 X C WB	100 81	8 JACKING CAR	GREER HYD E505	153 BLDG & AREA -WB	TRANS CARS
3906624 X C WB	100 81	B JACKING CAR	GREER HYD E505	108 BLDG & AREA -WB	TRANS CARS
3906625 X C WB	100 81	B JACKING CAR	GREER HYD E505	120 BLDG & AREA -WB	TRANS CARS
3906626 X C WB	100 81	8 JACKING CAR	GREER HYD E505	3005 BLDG & AREA -WB	TRANS CARS
3906627 X C WB	100 81	B JACKING CAR	GREER HYD E505	116 BLDG & AREA -WB	TRANS CARS
3906628 X C WB		O UNASSIGNED	N/A	N/A BOTH EN/WN YARD	TRANS CARS
3906629 X C WB	100 81	8 JACKING CAR	GREER HYD E505	B121 BLDG & AREA -WB	TRANS CARS
3906630 X C WB	100 81	8 JACKING CAR	GREER HYD E505	B101 BLDG & AREA -WB	TRANS CARS
3906631 X C WB	100 81	8 JACKING CAR	GREER HYD E505	106 BLDG & AREA -WB	TRANS CARS
3906632 X C WB	100 81	8 JACKING CAR	GREER HYD E505	B111 BLDG & AREA -WB	TRANS CARS
3906633 X C WB	100 81	8 JACKING CAR	GREER HYD E505	108 BLDG & AREA -WB	TRANS CARS
3906634 X C WB	100 81	8 JACKING CAR	GREER HYD E505	B122 BLDG & AREA -WB	TRANS CARS
3906635 X C WB	100 81	8 JACKING CAR	GREER HYD E505	B103 BLDG & AREA -WB	TRANS CARS
3906636 X C WB		8 JACKING CAR	GREER HYD E505	B116 BLDG & AREA -WB	TRANS CARS
3906637 X C WB	100 81	8 JACKING CAR	GREER HYD E505	B110 BLDG & AREA -WB	TRANS CARS
3906638 X C WB	100 81	8 JACKING CAR	GREER HYD E505		TRANS CARS
3906639 X C WB	100 81	8 JACKING CAR	GREER HYD E505	112 BLDG & AREA -WB	TRANS CARS
3906640 X C WB	0	O UNASSIGNED	N/A	N/A BOTH EN/WN YARD	TRANS CARS
3906700 X C WB	100 81	8 JACKING CAR	GREER HYD E505	112 BLDG & AREA -WB	TRANS CARS

ACCET	TDV E	/U IOC			MANUFACTURERS	SERIAL	LOCATION	CATEGORY	
ASSET NUMBER				EQUIP DESCRIPTION			DESCRIPTION		CARN
3906701	X C W	3 100	818	JACKING CAR	GREER HYD E505	139	BLDG & AREA -WB	TRANS CARS	
3906702	X C W	3 100	818	JACKING CAR	GREER HYD E505	151	BLDG & AREA -WB	TRANS CARS	
3906703	X C W	3 100	818	JACKING CAR	GREER HYD E505	111	BLDG & AREA -WB	TRANS CARS	
3906704	X C W	3 100	818	JACKING CAR	GREER HYD E505	103	BLDG & AREA -WB	TRANS CARS	
3906705	X C W	3 100	818	JACKING CAR	GREER HYD E505	123	BLDG & AREA -WB	TRANS CARS	
3906706	X C W	3 100	818	JACKING CAR	GREER HYD E505	105	BLDG & AREA -WB	TRANS CARS	
3906707	X C W	3 100	818	JACKING CAR	GREER HYD E505	149	BLDG & AREA -WB	TRANS CARS	
3906708	X C W	3 100	818	JACKING CAR	GREER HYD E505	146	BLDG & AREA -WB	TRANS CARS	
2300103	X L W	5 100	010	SACKING CAR	GKEEK HID EJOJ	152	DEDG & AKEN WO	TRANS CARS	
				JACKING CAR				TRANS CARS	
3906711	X C W	B 100	818	JACKING CAR	GREER HYD E505	132	BLDG & AREA -WB	TRANS CARS	
				JACKING CAR				TRANS CARS	
3906713	X C W	B 100	818	JACKING CAR	GREER HYD E505	121	BLDG & AREA -WB	TRANS CARS	
3906714	X C W	в 100	818	JACKING CAR	GREER HYD E505	136	BLDG & AREA -WB	TRANS CARS	
7006715	v c u	2 100	212	INCKING CAD	CDEED HYD ESOS	133	RIDG & ARFA -UR	TRANS CARS	
3906716	X C W	в 100	818	JACKING CAR JACKING CAR JACKING CAR JACKING CAR JACKING CAR	GREER HYD E505	131	BLDG & AREA -WB	TRANS CARS	
3906717	X C M	в 100	818	JACKING CAR	GREER HYD E505	125	BLDG & AREA -WB	TRANS CARS	
3906718	X C W	В 100	818	JACKING CAR	GREER HYD E505	130	BLDG & AREA -WB	TRANS CARS	
3906719	X C W	В 100	818	JACKING CAR	GREER HYD E505	111	BLDG & AREA -WB	TRANS CARS	
3906720	X C W	B 100	818	JACKING CAR	GREER HYD E505	115	BLDG & AREA -WB	TRANS CARS	
3906721	XCW	B 100	818	JACKING CAR	GKEEK HTD EDUD	131	BLUG & AKEA -MB	IKANS CAKS	
3906722	XCW	B 0	0	UNASSIGNED	N/A			TRANS CARS	
3906723	XCW	B 100	818	JACKING CAR	GREER HYD E505	135	BLDG & AREA -WB	TRANS CARS	
				JACKING CAR					
				JACKING CAR				TRANS CARS	
				JACKING CAR				TRANS CARS TRANS CARS	
				JACKING CAR			BLDG & AREA -WB	TRANS CARS	
				JACKING CAR JACKING CAR				TRANS CARS	
				UNASSIGNED			BOTH EN/WN YARD		
3006731	X C H	R 100	, 818 1 818	HACKING CAR	GREER HYD ESOS		BLDG & AREA -WB		
3906732	XCH	B 100	818	JACKING CAR JACKING CAR	GREER HYD ESOS	107			
3906733	XCW	B () 0	UNASSIGNED	N/A	N/A	BOTH EN/WN YARD	TRANS CARS	
3906734	XCW	B 100	818	UNASSIGNED JACKING CAR JACKING CAR	GREER HYD E505	B114	BLDG & AREA -WB	TRANS CARS	
3906735	XCW	B 100	818	JACKING CAR	GREER HYD E505	105	BLDG & AREA -WB	TRANS CARS	
3906736				JACKING CAR	GREER HYD E505		BLDG & AREA -WB	TRANS CARS	
3906737	X C W			JACKING CAR	GREER HYD E505	117	BLDG & AREA -WB	TRANS CARS	
3906738	XCH	B 100	818	TRANSLATION CAR	WESTERN GEAR	3350	BLDG & AREA -WB	TRANS CARS	
3906739	X C W	B 100	818	TRANSLATION CAR	WESTERN GEAR	3321	BLDG & AREA -WB	TRANS CARS	
3906740	XCW	B 100	818	TRANSLATION CAR	WESTERN GEAR	3375	BLDG & AREA -WB	TRANS CARS	
3906741	X C W	B 100	818	TRANSLATION CAR	WESTERN GEAR	3466	BLDG & AREA -WB	TRANS CARS	
3906742	XCW	B 100	818	TRANSLATION CAR	WESTERN GEAR	3134	BLDG & AREA -WB	TRANS CARS	
3906743	X C W	B 100	818	TRANSLATION CAR	WESTERN GEAR	3291	BLDG & AREA -WB	TRANS CARS	
3906744	X C W	B 100	818	TRANSLATION CAR	WESTERN GEAR	3335	BLDG & AREA -WB	TRANS CARS	
3906745	X C W	B 100	818	TRANSLATION CAR	WESTERN GEAR	3099	BLDG & AREA -WB	TRANS CARS	
3906746	XCW	B (0	UNASSIGNED	N/A	N/A	BOTH EN/WN YARD	TRANS CARS	
3906800	X C W	B 100	818	JACKING CAR	GREER HYD E505	164	BLDG & AREA -WB	TRANS CARS	
3906801	X C W	B 100	818	JACKING CAR	GREER HYD E505	114	BLDG & AREA -WB	TRANS CARS	
3906802	XCW	B 100	818	JACKING CAR	GREER HYD E505	184	BLDG & AREA -WB	TRANS CARS	

10CT TOV E /// 100		MANUEACTUBEDO	CEDIAL	LOCATION	CATEGODY	
SET TRK E/W LOC	EQUIP DESCRIPTION		NO.	LOCATION DESCRIPTION	CATEGORY DESCRIPTION	CAPN
	EWOIP DESCRIPTION			DESCRIPTION		
					TRANS CARS	
100480/ V C UB 100 818	JACKING CAR	CREED HYD ESOS	160	RING & ARFA -UR	TRANS CARS	
\$906803 X C WB 100 818 \$906804 X C WB 100 818 \$906805 X C WB 100 818	JACKING CAR	GREER HYD ESOS	3403	BLDG & AREA -WB	TRANS CARS	
5906806 X C WB 100 818	JACKING CAR	GREER HYD E505	3302	BLDG & AREA -WB	TRANS CARS	
3906807 X C WB 100 818	JACKING CAR	GREER HYD ESOS	151		TRANS CARS	
3906808 X C WB 100 818					TRANS CARS	
3906809 X C WB 100 818					TRANS CARS	
3906810 X C WB 100 818				BLDG & AREA -WB	TRANS CARS	
3906811 X C WB 100 818	JACKING CAR	GREER HYD E505	158		TRANS CARS	
3906812 X C WB 100 818	JACKING CAR	GREER HYD ESOS	159	BLDG & AREA -WB	TRANS CARS	
3906813 X C WB 100 818					TRANS CARS	
3906814 X C WB 100 818					TRANS CARS	
3006815 X C UB 100 818	JACKING CAR	GREER HYD E505	181	BLDG & AREA -WB	TRANS CARS	
3906816 X C WR 100 818	JACKING CAR	GREER HYD E505	143	BLDG & AREA -WB	TRANS CARS	
3906815 X C WB 100 818 3906816 X C WB 100 818 3906817 X C WB 0 0	UNASSIGNED	N/A	N/A	BOTH EN/UN YARD	TRANS CARS	
3906879 X C WR 100 818	TRANSLATION CAR	WESTERN GEAR		BLDG & AREA -WB	TRANS CARS	
3906817 X C WB 0 0 3906879 X C WB 100 818 3906880 X C WB 0 0 3906900 X C WB 100 818 3906901 X C WB 100 818	UNASSIGNED	N/A		BOTH EN/WN YARD	TRANS CARS	
3906900 X C VB 100 818	JACKING CAR	GREER HYD ESOS		BLDG & AREA -WB	TRANS CARS	
3906901 X C UB 100 818	JACKING CAR	GREER HYD E505		BLDG & AREA -WB	TRANS CARS	
3906902 X C WB 100 818	JACKING CAR	GREER HYD E505		BLDG & AREA -WB	TRANS CARS	
	JACKING CAR			BLDG & AREA -WB	TRANS CARS	
	JACKING CAR	GREER HYD E505		BLDG & AREA -WB	TRANS CARS	
	JACKING CAR			BLDG & AREA -WB	TRANS CARS	
	JACKING CAR			BLDG & AREA -WB	TRANS CARS	
	JACKING CAR				TRANS CARS	
	JACKING CAR				TRANS CARS	
	UNASSIGNED	N/A		BOTH EN/WN YARD	TRANS CARS	
3906910 X C WB 100 818				BLDG & AREA -WB	TRANS CARS	
3906911 X C WB 100 818					TRANS CARS	
3906912 X C WB 100 818	JACKING CAR	GREER HYD E505	183	BLDG & AREA -WB	TRANS CARS	
3906913 X C WB 100 818	JACKING CAR	GREER HYD E505	166	BLDG & AREA -WB	TRANS CARS	
3906913 X C WB 100 818 3906914 X C WB 100 818	JACKING CAR	GREER HYD E505	3079	BLDG & AREA -WB	TRANS CARS	
3906915 X C WB 0 0	UNASSIGNED	N/A	N/A	BOTH EN/WN YARD	TRANS CARS	
3906916 X C WB 100 818	JACKING CAR	GREER HYD E505	119	BOTH EN/WN YARD BLDG & AREA -WB	TRANS CARS	
3906915 X C WB 0 0 0 3906916 X C WB 100 818 3907001 X C WB 0 0	UNASSIGNED	N/A		BOTH EB/WB YARD	TRANS CARS	
3908001 T C EB 200 406		BROWN HOIST DE	3 12257	BLDG & AREA -EB	RAIL CRANES	IIPDR
3908002 T C EB 200 406	15 TON	BROWN HOIST DE	3 12281	BLDG & AREA -EB	RAIL CRANES	3580R
3908003 T C EB 200 406	18 TON	BROWN HOIST DE	3 12282	BLDG & AREA -EB	RAIL CRANES	IIPDR
3908004 T C WB 100 406	18 TON	BROWN HOIST DE	3 12280	BLDG & AREA -WB	RAIL CRANES	3347R
3908005 T C WB 100 331	15 TON	BROWN HOIST DE	3 9028	BLDG & AREA -WB	RAIL CRANES	3579R
3908006 T C EB 200 406	11 TON	AMERICAN	l L-3771	BLDG & AREA -EB	RAIL CRANES	
3908007 T C WB 0 999	OVERHAUL (SPARES)	N/A	A LABOR (OUNASSIGNED	RAIL CRANES	9999R
3908008 T C EB 200 890	18 TON	BROWN HOIST DE	3 12257	BLDG & AREA -EB	RAIL CRANES	3757R
3908009 T C EB 200 890	18 TON	BROWN HOIST DE	3 12282	BLDG & AREA -EB	RAIL CRANES	3292R
3908010 T C WB 138 406	40/10 TON RAIL CRANE	OHIO LOCOMOTIVE	* 5163	PLATE STORAGE	RAIL CRANES	
3908011 T C WB 138 406	40/10 TON RAIL CRANE	OHIO LOCOMOTIVE	* 5170	PLATE STORAGE	RAIL CRANES	
3908012 T C WB 100 406	10TON LOCOMOTIVE CRANE	OHIO LOCOMOTIVE	* 5188	BLDG & AREA -WB	RAIL CRANES	
3909001 T C WB 100 602	UNASSIGNED	N//	A N/A	BLDG & AREA -WB	HANDLING BOXES	
3909002 T O WB 100 851	FAB.(10)ALUMINUM MATL	N/A COLLECTION	B N/A	BLDG & AREA -WB	HANDLING BOXES	

ASSET	TRK	E/W	LOC			MANUFACTL	RERS	SERIAL		LOCATIO	ON	CATEGOR	Y	
NUMBER	CEO		CDE		EQUIP DESCRIPTION			NO.				DESCRIP	TION	CARN
	•••									• • • • • •				
3909003	T O	WB	100	816	FABRICATE KEEL BLOCKS	N/A AND S	TEEL BO	A/N	BLDG	& AREA	-WB	HANDLIN	G BOXES	
					COURIER CAR		N/A	H72-240	OBLDG	& AREA	-EB		CARS	01287R
3910002	T C	WB	100	0	COURIER COR		N/A	H72-240				COURTER	CARS	01633R
3911000	T O	WB	100	602	DIRECT MATL COLLECTION		N/A	GEN PRI	UBLDG .	& AREA	-WB	MOBILE	CRANES	
3711001	, ,	ED	200	400	23 10M C-1	GVOAF	KIULS	3438		& AREA		MOBILE	CRANES	
3911002	T C	WB			25 TON C-2							MOBILE		
3911003					25 TON C-3							MOBILE		
					25 TON C-4							MOBILE		
3911005	T C	WB	100		25 TON C-5							MOBILE		
3911006	T C	WB			6 TON C-6	GRO	VE 358	4171	BLDG	& AREA	-WB	MOBILE		01289R
3911007	T C	WB	100	0	6 TON C-7	GRO	IVE 35B	4190	BLDG	& AREA	-WB	MOBILE		01290R
3911008			100	331	50 TON TRUCK C-8	AA.	ERICAN	GS11130	OBLDG	& AREA	-WB	MOBILE		3875R
3911009	T C	WB	100	7.DA	AN TON TRICK C.O	A B	IEPICAN	CCOV27	iri nc	X. ADFA	-UR	MOBILE		IIPD
3911010	T C	WB	100	406	60 TON TRUCK C-10 41.9 TON C-11 C-12 20 TON (30) C-13 25 TON (30) C-14 30 TON C-15 30 TON 6 TON GO DEVIL	Al-	ERICAN	GS8300	BLDG	& AREA	-WB	MOBILE		3760R
3911011	T C	EB	200	406	41.9 TON C-11		P&H	31003	BLDG	& AREA	-EB	MOBILE		3691R
3911012	T C	EB	200	406	C-12 20 TON (30)	GROVE	RT65S	23234	BLDG	& AREA	-EB	MOBILE		
3911013	TC	WB	100	602	C-13 25 TON (30)	GROVE	. RT65S	23519	BLDG	& AREA	-WB	MOBILE		01732R
3911014	TC	EB	200	406	C-14 30 TON	GROVE	RT65S	23950	BLDG	& AREA	-EB	MOBILE		
3911015	T C	EB	200	406	C-15 30 TON	GROVE	. RT65S	23626	BLDG	& AREA	-EB	MOBILE		
3911016	TC	: WB	100	406	6 TON GO DEVIL		DROTT	1104	BLDG	& AREA	-WB	MOBILE		
3911017	1 0	. WB	100	400	C-11 4 ION GO DEVIL		DKULL	2170	PLPG	∞ AKEM	- MD	MOBILE		
					16.6 TON STEEDER							MOBILE		IIPD
3911019												MOBILE		9999R
					CHRRY PICKER							MOBILE		
					CHERRY PICKER							MOBILE		2012R
					007 15 TON CRAWLER							MOBILE		3122R
					140,900 LB 8150			34597				MOBILE		
					SPEEDER 28'RAD 6.6 TON							MOBILE		2677R
3911025	TC	: WB	100	0	25 TON CRAWLER	NORTHW						MOBILE		01186R
3911026	TC	: WB	100	331	10 TON STEEDER	A		GS1132				MOBILE		3577R
					UNASSIGNED		N/A	N/A	BLDG	& AREA	-WB	MOBILE		
					55 TON	Al	IER I CAN	GS1851	7BLDG	& AREA	-MB	MOBILE		
					55 TON	A	MERICAN	G\$1851	AREDG	& AREA	-MR	MOBILE		
					55 TON							MOBILE		
					7.5 TON 1977			39910		_		MOBILE		
					CRAWLER 40 TON 1977			GS1864				MOBILE		
3911033					40 TON CRAWLER CRANE			GS1864				MOBILE		
3911034					10 TON MOBILE CRANE 19	7		40045				MOBILE		
3911035					1978 35 TONS			42142			-MB	MOBILE		
3911036					OVERHAUL (SPARES)		-	LABOR				MOBILE		9999R
3911037					155 TON TRUCK CRANE			399064				MOBILE		
3911038					40 TON HYDRAULIC CRANE			50228			-MB	MOBILE		
3911039					40 TON HYDRAULIC CRANE			50352				MOBILE		
3911040					40 TON HYDRAULIC CRANE			50353				MOBILE		
3911041					100 TON TRUCK CRANE	LINK BE						MOBILE		
3911042					40 TON TRUCK C-9			GS9454		_		MOBILE		3982R
3911043					16.6 TON SPEEDER	Al		GS1129				MOBILE		3581R
3911044					87 45 TON HYD.CRANE			69996				MOBILE		
3911045	TC	WB	114	406	87 45 TON HYD.CRANE		GROVE	69997	TRANS	PORTAT	ION	MOBILE	CRANES	

		- 41				WANTIEACTURERS	SERIAL	LOCATION	CATEGORY	
		E/W		c /c	EQUIP DESCRIPTION	MANUFACTURERS		ESCRIPTION	DESCRIPTION	CARN
UMBER	CEO		CDE		EQUIP DESCRIPTION	MANE			DESCRIPTION	CARN
			114	406	87 45 TON HYD.CRANE		69998 TRAN	SPORTATION	MOBILE CRANES	
3911047					87 45 TON HYD.CRANE		69997 TRAN		MOBILE CRANES	
3911048					87 45 TON HYD.CRANE	GROVE	69899 TRAN	SPORTATION	MOBILE CRANES	
3911049			114	406	88 15/17.5-TON HYD.CRAI	4 GROVE	71188 TRAN	SPORTATION	MOBILE CRANES	
3911050	T C	WB	114	406	88 15/17.5-TON HYD.CRAI	N GROVE	71189 TRAN	SPORTATION	MOBILE CRANES	
3912000	ТО	WB	100	602	DIRECT MATL COLLECTION	N/A	GEN PURBLDG	& AREA -WB	FORKLIFTS	
3912001	T C	WB	100	0	9 TON	BAKER	103567 BLDG	& AREA -WB	FORKLIFTS	1442R
3912002	T C	WB	100	0	GASOLINE 3 TON	BAKER	G-1835-BLDG	& AREA -WB	FORKLIFTS	01371R
3912003	T C	WB	100	0	6000 LB	BAKER	G-1835-BLDG	& AREA -WB	FORKLIFTS	00925R
3912004	T C	WB	100	0	6000#	BAKER	G-1835-BLDG	& AREA -WB	FORKLIFTS	01245R
3912005	T C	WB	100	0	6000 LB	BAKER	G1835-2BLDG	& AREA -WB	FORKLIFTS	00928R
3912006	T C	WB	100	0	3 TON L-9	BAKER	G-1835-BLDG	& AREA -WB	FORKLIFTS	00927R
3912007	T C	WB	100	0	3 TON L 10	BAKER	G1835-2BLDG	& AREA -WB	FORKLIFTS	01546R
3912008	T C	WB	100	602	6000 #	BAKER	G1835-2BLDG	& AREA -WB	FORKLIFTS	1500R
3912009	T C	WB	100	0	HASOLINE GF-060-003	BAKER	C-1835-BLDG	& AREA -WB	FORKLIFTS	01372R
3912010	T C	WB	100	0	6000 #	BAKER	G-1835-BLDG	& AREA -WB	FORKLIFTS	00955R
3912011	T C	WB	100	0	HASOLINE 0500-060 3 TO	N CLARK	H635-23BLDG	& AREA -WB	FORKLIFTS	01150R
3912012	T C	WB	100	405	6000#		H685-24BLDG		FORKLIFTS	
3912013			100		6000#	PETTIBONE	71A-728BLDG	& AREA -WB	FORKLIFTS	929R
3912014	TC					PETTIBONE	71A-728BLDG		FORKLIFTS	2650R
3912015	TC	WB	100	406	3 TON MODEL SL3	MULTI-PALLET	· · ·	: & AREA -WB	FORKLIFTS	2981R
3912016	TC	: WB	100	0	4000 LB SUPER 4	PETTIBONE		& AREA -WB	FORKLIFTS	00949R
3912017	Τ (: WB	100	0	3 TON	PETTIBONE		i & AREA -WB	FORKLIFTS	01151R
3912018	TC	: WB	100	0	6000 #	PETTIBONE		& AREA -WB	FORKLIFTS	01599R
3912019	' T C	WB	100	0	6000 #	PETTIBONE		& AREA -WB	FORKLIFTS	01512R
3912020			100	0	6000 #	PETTIBONE		& AREA -WB	FORKLIFTS	01513R
3912021	T	: WB	100		FORKLIFT	PETTIBONE		& AREA -WB	FORKLIFTS	01514R
3912022			100		FORKLIFT	PETTIBONE		& AREA -WB	FORKLIFTS	01461R
3912023			100		6000 #	PETTIBONE		& AREA -WB	FORKLIFTS	01248R
3912024					10 TON	PETTIBONE		& AREA -WB	FORKLIFTS	2650R
3912025					6000 #	WALDON		& AREA -WB	FORKLIFTS	IIPDR
3912026			100		DA-80	PETTIBONE MERCU			FORKLIFTS	01343R
3912027					6000 #		69K-678BOTI		FORKLIFTS	0843R
3912028			100		3 TON L-35		Y1015-1BLD		FORKLIFTS	01344R
3912029			100		4400#		FG-105-BLD		FORKLIFTS	01153R
3912030			100		4400 #		FG-105-BLD		FORKLIFTS	01353R
3912031			100		6000 #		I FG-107-BLD: I FG-107-BLD:		FORKLIFTS	00879R
3912032					6000 LB		FG-107-BLD		FORKLIFTS	1034R
3912033			100		5000 LB		FG-105-BLD		FORKLIFTS	01498R
3912034					2.5 TON L-42		FG105-0BLD		FORKLIFTS	1154R
3912035			100		DATSUN		i FG-105-BLD		FORKLIFTS	01156R
3912036			100		2.5 TON			_	FORKLIFTS	01159R
3912037			100		5000 # FORKLIET 4000#		FG-105-BLD	G & AREA -WB	FORKLIFTS	01293R
3912038					FORKLIFT 6000#	WALDON			FORKLIFTS	IIPDR
3912039			100		ELECT. FORKLIFT	OTIS TIL-EF-F			FORKLIFTS	01501R
3912040			100		6000LB		CFG103-BLD	_	FORKLIFTS	01564R
3912041			100		3000 LB		CFG0036BLD		FORKLIFTS	01597R
3912042			100		5000 LB		CFG105-BLD		FORKLIFTS	01505R
3912043) (, MR	100	U	FORKLIFT 3600 #	DAISUN	CFG1030BLD	3 & WEN -MR	FORKLIFTS	01565R

ASSET	TOK F/U	100			MANUFACTURERS	SERIAL	LOCATION	CATEGORY	
NUMBER			C/C	EQUIP DESCRIPTION		NO. DE		DESCRIPTION	CARN
								•••••	
3912044	T C WB	100	0	FORKLIFT 60	WHITE	3E+07 BLDG	& AREA -WB	FORKLIFTS	01361R
3912045	T C WB	100	0	6000LB	BAKER	G-1848-BLDG	& AREA -WB	FORKLIFTS	00970R
3912046		100		FORKLIFT		CFG0357BLDG		FORKLIFTS	01247R
3912047	T C WB	100	309	ELECT. FORKLIFT	BIG JOE MFG	EZ0957 BLDG	& AREA -WB	FORKLIFTS	3099R
3912048	T C WB	0	0	UNASSIGNED	N/A	N/A BOTH	DB/WB YARD	FORKLIFTS	9999R
3912049	T C WB	0	602	OVERHAUL (SPARES)	N/A	LABOR OUNASS	INGED	FORKLIFTS	
3912050	T C WB	100	0	7000 #	YALE	A187632BLDG	& AREA -WB	FORKLIFTS	01222R
3912051	T C WB	100	0	CFY-60	CLARK	CFY-60-BLDG	& AREA -WB	FORKLIFTS	01246R
3912052	T C WB	200	405	GASOLINE S40C 2 TON	HYSTER	C2D3471BLDG	& AREA -EB	FORKLIFTS	2651R
3912053	T C WB	100	0	FORKLIFT	DATSUN	138817 BLDG	& AREA -WB	FORKLIFTS	01475R
3912054	T C WB	100	602	600 FB	CLARK	H685-24BLDG	& AREA -WB	FORKLIFTS	
3912055	T C WB	200	409	GASOLINE 4100 #	HYSTER	B3D 555BLDG	& AREA -EB	FORKLIFTS	2650R
3912056	T C WB	0	0	UNASSINGED	N/A	N/A BOTH	DB/WB YARD	FORKLIFTS	9999R
3912057	T C WB	200	406	GASOLINE 4100 #	HYSTER	B3D7107BLDG	& AREA -EB	FORKLIFTS	2650R
3912058	T C WB	100	405	3000 #	YALE	P173816BLDG	& AREA -WB	FORKLIFTS	
3912059	T C WB	0	0	UNASSIGNED	N/A	N/A BOTH	DB/WB YARD	FORKLIFTS	
3912060	T C WB	100	842	ELECTRIC 3500 #	CLARK	ST40-34BLDG	& AREA -WB	FORKLIFTS	1984R
3912061	T C WB	100	0	6000LB	CLARK	CHY60-2BLDG	& AREA -WB	FORKLIFTS	00979R
3912062	T C WB	100	0	1500 #	STRATTON	TT11026BLDG	& AREA -WB	FORKLIFTS	01598R
3912063	T C WB	100	0	8000 LB	CLARK	CY10089BLDG	& AREA -WB	FORKLIFTS	00931R
3912064	T C WB	100	0	20000 LB	CLARK	HY1425-BLDG		FORKLIFTS	01511R
3912065	X C WB	100	602	DRILL RIG MATL. ONLY	N/A	-	& AREA -WB	FORKLIFTS	
				2400 LB	HYSTER	N/A BLDG	& AREA -EB	FORKLIFTS	3034R
3912067	T C EB	200	406	GASOLINE 4000 #	DATSUM	FG105-0BLDG	& AREA -EB	FORKLIFTS	1931R
3912068	TCWB	100	602	7500 LB	HYSTER	C5D9226BLDG	& AREA -WB	FORKLIFTS	02495R
3912069	T C WB	100	0	3000 LB	CLARK	CHY6023BLDG	& AREA -WB	FORKLIFTS	01033R
3912070	T C WB	100	0	ELECTRIC 2000#	CLARK	NSP30-5BLDG	& AREA -WB	FORKLIFTS	01889R
3912071	T C WB	100	602	3 TON TYPE G	CLARK	CHY60-1BLDG	& AREA -WB	FORKLIFTS	1661R
3912072	TCWB	0	0	RNASSIGNED	N/A			FORKLIFTS	
3912073	T C WB	100	0	ELECT 2 TON		855-W45BLDG		FORKLIFTS	01507R
				FORKLIFT 4000 #	HYSTER	C2D6816BLDG	& AREA -EB	FORKLIFTS	2650R
3912075	T C WB	100	0	4000 LB	RAYMOND	855W48TBLDG	& AREA -WB	FORKLIFTS	01070R
3912076	TCWB	100	0	7500 #		C5D-895BLDG		FORKLIFTS	01518R
3912077	T C WB	100	0	ELECTRIC 4000 #		855-W4SBLDG		FORKLIFTS	01508R
_	S T C WB					ST4016-BLDG		FORKLIFTS	1985R
3912079	TCWB	200		ELECTRIC 2800		ST40-35BLDG		FORKLIFTS	3034R
3912080	TCWB	100		3500 LB MS		ST40-16BLDG		FORKLIFTS	01506R
	X C WB	0		UNASSIGNED		· ·	DB/WB YARD	FORKLIFTS	
				ELECTRIC 3000 #		AJ12071BLDG	_	FORKLIFTS	2650R
	T C WB			'6 TON		C6D5969BLDG	_	FORKLIFTS	01566R
	TCEB			67 ELEC. STACKER L/T		RJ12071BLDG		FORKLIFTS	
	X C WB			UNASSIGNED	N/A		DB/WB YARD	FORKLIFTS	
				ELECTRIC 3000 #		020-R30BLDG		FORKLIFTS	
	7 T C EB			1972 ELECT		020-R30BLDG		FORKLIFTS	
	3 X C WB			UNASSIGNED	N/A	•	DB/WB YARD	FORKLIFTS	
3912089	T E EB			PALLET TRUCK				FORKLIFTS	00960R
3912090	TCWB			2 4.5 TON - 1973 ELECT.		6 69830 BLDG		FORKLIFTS	
	X C WB			UNASSIGNED	N/A		DB/WB YARD	FORKLIFTS	
3912092	T C WB	100	405	1972 ELECT	BLUE GIANT	32269 BLDG	& AREA -WB	FORKLIFTS	3131R

ASSET	TRK F/U	LOC			MANUFACTURERS	SERIAL	LOCATION	CATEGORY	
NUMBER	-		C/C				SCRIPTION	DESCRIPTION	CARN
		•••							
3912093	X C WB	0	0	UNASSIGNED	N/A	N/A BOTH	DB/WB YARD	FORKLIFTS	
3912094	X C WB	100	0	1972 PROPANE	DATSUN	CFG-105BLDG	& AREA -WB	FORKLIFTS	01476R
3912095	T C WB	128	843	1972 ELECT	RAYMOND	119-373COMBI	NE SHOP	FORKLIFTS	2215R
3912096	X C WB	100	0	UNKNOWN	PETTIBONE			FORKLIFTS	00864R
3912097	X C WB	0	0	UNASSIGNED	N/A	N/A BOTH	DB/WB YARD	FORKLIFTS	
3912098	T C WB	100	0	GASOLINE 5000 #	DATSUN	FG105-OBLDG	& AREA -WB	FORKLIFTS	01515R
3912099	T C WB	100	602	MANUEL PALLET TRUCKS	N/A	LABOR OBLDG	& AREA -WB	FORKLIFTS	
3912100	T C WB	100	0	1973 PROPANE	DATSUM	UNKNOWNBLDG	& AREA -WB	FORKLIFTS	01504R
3912101	X C WB	0	0	UNASSIGNED	N/A	N/A BOTH	DB/WB YARD	FORKLIFTS	
3912102	X C WB	0	0	UNASSIGNED	N/A	N/A BOTH	DB/WB YARD	FORKLIFTS	
3912103	T C WB	100	0	6000 LB	PETTBONE	GS60-69BLDG	& AREA -WB	FORKLIFTS	00950R
3912104	T C WB	128	843	1975 GAS 5000 LB	WALDON	9952 COMBI	NE SHOP	FORKLIFTS	2840R
3912105	T C WB	100	405	ORDER PICKER 1975 ELECT	RAYMOND	012-OP2BLDG	& AREA -WB	FORKLIFTS	2842R
3912106	T C WB	100	405	2500 LB ORD/PKR '75EL	RAYMOND	12-OP25BLDG	& AREA -WB	FORKLIFTS	3131R
3912107	T C EB	200	601	FORKLIFT DIESEL	HYSTER	C005D16BLDG	& AREA -EB	FORKLIFTS	
3912108	TCWB	100	406	FORKLIFT	HYSTER	COORD16BLDG	& AREA -WB	FORKLIFTS	1956R
3912109	T C WB	100	406	4.5 TON	HYSTER	COO5D16BLDG	& AREA -WB	FORKLIFTS	IIPKR
3912110	T C WB	100	406	4.5 TON	HYSTER	COO5D16BLDG	& AREA -WB	FORKLIFTS	02495R
3912111	T C WB	100	406	4.5 TON	HYSTER	COO5D16BLDG	& AREA -WB	FORKLIFTS	2651R
3912112	T C WB	100	309	4.5 TON	HYSTER	COO5D16BLDG	& AREA -WB	FORKLIFTS	3034R
3912113	T C WB	100	409	FORKLIFT	CLARK	3562522BLDG	& AREA -WB	FORKLIFTS	2841R
3912114	T C WB	100	405	FORKLIFT	CLARK	NS24630BLDG	& AREA -WB	FORKLIFTS	2844R
3912115	T C WB	100	405	1976 OROPANE	HYSTER	B004D06BLDG	& AREA -WB	FORKLIFTS	
3912116	T C EB	200	405	FORKLIFT	HYSTER	B004D06BLDG	& AREA -EB	FORKLIFTS	
3912117	T C EB	200	417	5000 LB ELECT 1977	CLARK	E355-69BLDG	& AREA -EB	FORKLIFTS	
				1976 PROPANE		COO2D19BLDG	& AREA -WB	FORKLIFTS	3034R
3912119	TCWB	100	405	FORKLIFT 1976	HYSTER	D003D05BLDG	& AREA -WB	FORKLIFTS	
				1976 PROPANE				FORKLIFTS	02385R
					HYSTER			FORKLIFTS	
					MULTITON			FORKLIFTS	
				PALLET TRUCK-HYD		S313286FAB S		FORKLIFTS	
				PALLET TRUCK-HYD		S313290FAB S	_	FORKLIFTS	
				ELECT. FORKLIFT				FORKLIFTS	01859R
				BIG JOE PALLET LIFT ML				FORKLIFTS	3034R
					ROL-LIFT CORP			FORKLIFTS	
	TEWB			ROL-LIFT MANUAL	ROL-LIFT CORP			FORKLIFTS	
	TEWB			HYDRAULIC PALLET TRUCK				FORKLIFTS	
	TEWB			HYDRAULIC PALLET TRUCK				FORKLIFTS	
	TEWB			HYDRAULIC PALLET TRUCK				FORKLIFTS	
	TEWB			HYDRAULIC PALLET LIFT	ROL-LIFT CORP			FORKLIFTS	
	TEWB			HAND OPER. PALLETMAN	ALLIS CHALMERS			FORKLIFTS	
	TEWB			HAND OPER.	BRUNS CO.		& AREA -WB & AREA -WB	FORKLIFTS	
					N/A		_	FORKLIFTS	
	TEWB			HAND OPER.PALLETMSTR 4000 LB LP GAS	ALLIS CHALMERS	D003D07BLDG	& AREA -WB	FORKLIFTS	24510
				HAND OPER. 5000 # CAP			_	FORKLIFTS	2651R
	TEWB			HAND OPER. 5000 # CAP	BURNS CO. AMERICAN		& AREA -WB	FORKLIFTS	
	TEWB			HAND OPER. PALLETMSTR	ALLIS CHALMERS		& AREA -WB	FORKLIFTS FORKLIFTS	3308R
				HAND OPER			& AREA -WB	FORKLIFTS FORKLIFTS	JJUOK
3716141	I E MD	100	502	HARD OFER	STOCKA MOLLAN	OEJ7 BLUG	" WEN .MD	FORKLIFTS	

ASSET TRK E/W LOC MANUFACTURERS SERIAL LOCATION CATEGORY NUMBER CEO CDE C/C EQUIP DESCRIPTION NAME NO. DESCRIPTION DESCRIPTION	CARN
3912142 T C WB 100 602 HAND OPER RAYMOND 119-373BLDG & AREA -WB FORKLIFTS	
3912143 T E WB 100 602 HAND OPER ALLIS CHALMERS N/A BLDG & AREA -WB FORKLIFTS	
3912144 T E WB 100 602 HAND OPER STOCKA MOLLAN N/A BLDG & AREA -WB FORKLIFTS	
3912145 T C WB 100 0 1500 LB ELECT 1969 CROWN L-7645-BLDG & AREA -WB FORKLIFTS	01663R
3912146 T E WB 100 602 HAND OPER. PRIME MOVER 18591 BLDG & AREA -WB FORKLIFTS	
3912147 T E WB 100 602 HAND OPER PALLETMAN ALLIS CHALMERS N/A BLDG & AREA -WB FORKLIFTS	
3912148 T E WB 100 602 HAND OPER N/A N/A BLDG & AREA -WB FORKLIFTS	
3912149 T E WB 100 602 HAND OPER. PALLETMAN ALLIS CHALMERS N/A BLDG & AREA -WB FORKLIFTS	
3912150 T E WB 100 602 HAND OPER PRIME MOVER N/A BLDG & AREA -WB FORKLIFTS	
3912151 T E WB 100 602 MANUAL LIFT ODENDAHL N/A BLDG & AREA -WB FORKLIFTS	
3912152 T E WB 100 602 FORKLIFT WESLEY MFG 402Y754BLDG & AREA -WB FORKLIFTS	2651R
3912153 T E WB 100 602 FORKLIFT PRIME MOVER N/A BLDG & AREA -WB FORKLIFTS	
3912154 T E WB 100 602 FORKLIFT BARRETT ELEC. 17-2299BLDG & AREA -WB FORKLIFTS	
3912155 T C WB 100 602 FORKLIFT BLUE GAINT N/A BLDG & AREA -WB FORKLIFTS	
3912156 T E EB 200 602 ROL-LIFT T2748 ROL-LIFT CORP. 50328 BLDG & AREA -EB FORKLIFTS	
3912157 T C WB 100 602 FORKLIFT N/A N/A BLDG & AREA -WB FORKLIFTS	
3912158 T E WB 100 602 HYDRAULIC PALLET 3000# ROL-LIFT CORP. N/A BLDG & AREA -WB FORKLIFTS	
3912159 T C WB 100 395 FORKLIFT 4000 # NP 24 CLARK NP24615BLDG & AREA -WB FORKLIFTS	2843R
3912160 T C WB 100 422 3000 LB ELEC BIG JOE MFG 69828 BLDG & AREA -WB FORKLIFTS	
3912161 T C EB 200 405 FORKLIFT-4000 LB LP GAS HYSTER C002D19BLDG & AREA -EB FORKLIFTS	
3912162 T C WB 100 338 FORKLIFT-4000 LB LP GAS HYSTER C002D19BLDG & AREA -WB FORKLIFTS	
3912163 T C EB 200 406 FORKLIFT-8000 LB HYSTER C005D17BLDG & AREA -EB FORKLIFTS	2840R
3912164 T C WB 100 406 FORKLIFT-8000 LB HYSTER C0050-1BLDG & AREA -WB FORKLIFTS	3697R
3912165 T C WB 100 818 FORKLIFT-6000 LB ELECT. CLARK P465266BLDG & AREA -WB FORKLIFTS	
3912166 T O EB 200 843 ELECTRIC TOTE MOTOR POTTER-RAYFIELD N/A BLDG & AREA -EB FORKLIFTS	
3912167 T O WB 200 843 ELECTRIC LIFT POTTER-RAYFIELD N/A BLDG & AREA -EB FORKLIFTS	
3912168 T O EB 200 843 ELECTRIC TOTE MOTOR POTTER-RAYFIELD N/A BLDG & AREA -EB FORKLIFTS	
3912169 T C WB 100 406 4 TON HYSTER 7382X BLDG & AREA -WB FORKLIFTS	2840R
3912170 T C WB 100 406 4 TON DIESEL HYSTER C005017BLDG & AREA -WB FORKLIFTS	2840R
3912171 T C WB 100 406 4 TON HYSTER 7377X BLDG & AREA -WB FORKLIFTS	3034R
3912172 T C WB 100 461 3 TON HYSTER 7392X BLDG & AREA -WB FORKLIFTS	
3912173 T C WB 100 407 4TON HYSTER '7381X BLDG & AREA -WB FORKLIFTS	2651R
3912174 T C EB 200 406 4 TON HYSTER 7378X BLDG & AREA -EB FORKLIFTS	
3912175 T C EB 200 405 6000 LB HYSTER X005D17BLDG & AREA -EB FORKLIFTS	
3912176 T C WB 100 406 8000 LB DIESEL HYSTER C005D17BLDG & AREA -WB FORKLIFTS 3912177 T C UB 100 406 8000 LB HYSTER C005D17BLDG & AREA -WB FORKLIFTS	30 9 9R
2,1211.	02495R
3912178 T C WB 100 416 3 TON HYSTER COO3DO7BLDG & AREA -WB FORKLIFTS	
3912179 T C EB 200 405 NARROW ISLE 4000 LB CLARK NX246-7BLDG & AREA -EB FORKLIFTS	2844R
3912180 T C WB 100 422 2000 LB POWERWORKER CLARK S20-36-BLDG & AREA -WB FORKLIFTS	
3912181 T C WB 100 855 ELECT. FORKLIFT 1500 # BIG JOE MFG 64210 BLDG & AREA -WB FORKLIFTS	
3912182 T C EB 200 338 ELECT CROWN 7645-2 BLDG & AREA -EB FORKLIFTS	3446R
3912183 T E WB 100 818 PALLET TRUK-HYD ALLIS CHALMERS N/A BLDG & AREA -WB FORKLIFTS	
3912184 T C EB 222 834 FORKLIFT CLARK SP-30-3MACH SHOP FORKLIFTS	
3912185 T C WB 100 409 1977 LP GAS FORKLIFT HYSTER D002D04BLDG & AREA -WB FORKLIFTS	2844R
3912186 T C WB 100 338 1977 LP GAS FORKLIFT HYSTER D002D04BLDG & AREA -WB FORKLIFTS	2843R
3912187 T C WB 100 406 10 TON DIESEL HYSTER B007P09BLDG & AREA -WB FORKLIFTS	
3912188 T C WB 100 406 FORKLIFT 8000 LB 1977 HYSTER C005D17BLDG & AREA -WB FORKLIFTS	2651R
3912189 T C WB 100 406 FORKLIFT 8000LB 1977 HYSTER C005D17BLDG & AREA -WB FORKLIFTS	IIPDR
3912190 T C EB 200 406 12.5 TON DIESEL HYSTER C7P1669BLDG & AREA -EB FORKLIFTS	

SET TRK E/W LOC	MANUFACTURERS SERIAL LOCATION	
IMBER CEO CDE C/C EQUIP DESCRIPTION	NAME NO. DESCRIPTION	DESCRIPTION CARN
		•••••
912191 T C WB 100 406 1977 8000 LB 912192 T C WB 100 0 2 TON ELE.	HYSTER COO5B17BLDG & AREA -WB	FORKLIFTS
5912192 T C WB 100 0 2 TON ELE.	MOTO TRUC COTEL 30268-1BLDG & AREA -WB	FORKLIFTS 01830R
3912193 T E WB 100 822 PALLET TRUCK	N/A N/A BLDG & AREA -WB	FORKLIFTS
5912194 T E EB 200 322 PALLET TRUCK	PROME MOVER 10349 BLDG & AREA -EB	FORKLIFTS
3912195 T E WB 100 405 PALLET TRUCK		FORKLIFTS
	PALLET MASTER UNKNOWNBLDG & AREA -WB	FORKLIFTS 01994R
	ROL-LIFT CORP 47017 BLDG & AREA -WB	FORKLIFTS
3912198 T C WB 100 O PALLET TRUCK	CARLSON PAINE 2369043BLDG & AREA -WB	FORKLIFTS 01995R
3912199 T E WB 100 405 PALLET TRUCK 3912200 T E EB 200 601 PALLET TRUCK 3912201 T E WB 100 843 PALLET TRUCK 3912202 T E EB 200 601 PALLET TRUCK 6000 #	N/A N/A BLDG & AREA -WB	FORKLIFTS
3912200 T E EB 200 601 PALLET TRUCK	STRATTON 10706 BLDG & AREA -EB	FORKLIFTS
3912201 T E WB 100 843 PALLET TRUCK	N/A N/A BLDG & AREA -WB	FORKLIFTS
3912202 T E EB 200 601 PALLET TRUCK 6000 #	WEST BEND EQ 6LP66W-BLDG & AREA -EB	FORKLIFTS
3912203 T E WB 100 843 PALLET TRUCK	BURNS CO 34847 BLDG & AREA -WB	FORKLIFTS
3912203 T E WB 100 843 PALLET TRUCK 3912204 T E EB 200 457 PALLET TRUCK 3912205 T E WB 100 843 PALLET TRUCK 3912206 T E EB 200 430 PALLET TRUCK	N/A N/A BLDG & AREA -EB	FORKLIFTS
3912205 T E WB 100 843 PALLET TRUCK	BURNS CO 34863 BLDG & AREA -WB	FORKLIFTS
3912206 T E EB 200 430 PALLET TRUCK	PRIME MOVER 10058 BLDG & AREA -EB	FORKLIFTS
3912207 T E WB 100 405 PALLET TRUCK		FORKLIFTS
3912208 T E EB 200 444 PALLET TRUCK	ALLIS CHALMERS 18436 BLDG & AREA -EB	FORKLIFTS 3308R
3912209 T E WB 100 405 PALLET TRUCK	LO-LIFT T-17491BLDG & AREA -WB	FORKLIFTS
3912210 T E EB 200 601 PALLET TRUCK		FORKLIFTS
3912211 T E WB 100 405 PALLET TRUCK		FORKLIFTS
3912212 T E EB 200 601 PALLET TRUCK		FORKLIFTS
3912213 T E WB 100 405 PALLET TRUCK		FORKLIFTS
3912214 T E EB 200 302 PALLET TRUCK 5000 #		FORKLIFTS 3705R
3912215 T E WB 100 405 PALLET TRUCK		FORKLIFTS
3912216 T E EB 200 818 PALLET TRUCK	N/A N/A BLDT & AREA -EB	FORKLIFTS
3912217 T E WB 100 405 PALLET TRUCK	ROL-LIFT CORP 60580 BLDG & AREA -WB	FORKLIFTS
3912218 T E EB 200 818 PALLET TRUCK 3912219 T E WB 100 831 PALLET TRUCK	N/A N/A BLDT & AREA -EB	FORKLIFTS
3912219 T E WB 100 831 PALLET TRUCK	N/A 2189-2 BLDG & AREA -WB	FORKLIFTS
5912220 1 F FR 200 851 PALLET TRUCK 5000 #	RIBUS CO 20651 RIDT & AREA -FR	EUDRI LELG
3912221 T E WB 100 409 PALLET TRUCK	ROL-LIFT CORP 60566 BLDG & AREA -WB	FORKLIFTS
3912221 T E WB 100 409 PALLET TRUCK 3912222 T E EB 222 822 PALLET TRUCK	ROL-LIFT CORP 47036 MACH SHOP	FORKLIFTS
3912223 T E WB 100 405 PALLET TRUCK 3912224 T E EB 200 843 PALLET TRUCK	. N/A N/A BLDG & AREA -WB	FORKLIFTS
3912224 T E EB 200 843 PALLET TRUCK	N/A N/A BLDT & AREA -EB	FORKLIFTS
3912225 T E WB 100 409 PALLET TRUCK	ROL-LIFT CORP 54474 BLDG & AREA -WB	FORKLIFTS
3912226 T E EB 200 843 PALLET TRUCK	N/A N/A BLDT & AREA -EB	FORKLIFTS
3912227 T E WB 100 409 PALLET TRUCK	LO-LIFT N/A BLDG & AREA -WB	FORKLIFTS
3912228 T E EB 200 405 PALLET TRUCK	PRIME MOVER 16030 BLDT & AREA -EB	FORKLIFTS
3912229 T E WB 100 601 PALLET TRUCK	N/A N/A BLDG & AREA -WB	FORKLIFTS 3308R
3912230 T E EB 200 405 PALLET TRUCK	PROME MOVER 10380 BLDT & AREA -EB	FORKLIFTS
3912231 T E EB 200 405 PALLET TRUCK 5000 #	ROL-LIFT CORP 47494 BLDT & AREA -EB	FORKLIFTS
3912232 T E EB 200 405 PALLET TRUCK	PRIME-MOVER 10331 BLDT & AREA -EB	FORKLIFTS
3912233 T E EB 200 405 PALLET TRUCK	ROL-LIFT CORP. 47208 BLDT & AREA -EB	FORKLIFTS
3912234 T E EB 200 825 PALLET TRUCK	ROL-LIFT CORP. 47013 BLDT & AREA -EB	FORKLIFTS
3912235 T E EB 200 825 PALLET TRUCK	ROL-LIFT CORP. 46043 BLDT & AREA -EB	FORKLIFTS
3912236 T E EB 200 822 PALLET TRUCK	PRIME MOVER 18863 BLDT & AREA -EB	FORKLIFTS
3912237 T E EB 200 834 PALLET TRUCK	N/A N/A BLDT & AREA -EB	FORKLIFTS
3912238 T E EB 200 834 PALLET TRUCK	PRIME MOVER 10043 BLDT & AREA -EB	FORKLIFTS
3912239 T E EB 200 601 PALLET TRUCK	N/A N/A BLDT & AREA -EB	FORKLIFTS

3912240 T E EB 200 405 PALLET TRUCK MULTITON \$261057BLDT & AREA -EB FORKLIFTS I 3912241 T E EB 200 405 PALLET TRUCK 4500 # RAMCO-STANDARD 7220 BLDT & AREA -EB FORKLIFTS 3912242 T E EB 200 831 PALLET TRUCK PRIME MOVER 15698 BLDT & AREA -EB FORKLIFTS 3912243 T C WB 100 405 TRT LOADING FORKLIFT CLARK 685-82-BLDG & AREA -WB FORKLIFTS 3912244 T C WB 100 409 4000# ELECT FORKLIFT 19 CLARK NP246-2BLDG & AREA -WB FORKLIFTS 3912245 T C WB 100 406 FORKLIFT 3500# 1978 WALDON MOD 12501 BLDG & AREA -WB FORKLIFTS 3	RN IPDR 844R 605R 842R 843R
3912240 T E EB 200 405 PALLET TRUCK MULTITON \$261057BLDT & AREA -EB FORKLIFTS 3912241 T E EB 200 405 PALLET TRUCK 4500 # RAMCO-STANDARD 7220 BLDT & AREA -EB FORKLIFTS 3912242 T E EB 200 831 PALLET TRUCK PRIME MOVER 15698 BLDT & AREA -EB FORKLIFTS 3912243 T C WB 100 405 TRT LOADING FORKLIFT CLARK 685-82-BLDG & AREA -WB FORKLIFTS 3912244 T C WB 100 409 4000# ELECT FORKLIFT 19 CLARK NP246-2BLDG & AREA -WB FORKLIFTS 3912245 T C WB 100 406 FORKLIFT 3500# 1978 WALDON MOD 12501 BLDG & AREA -WB FORKLIFTS 3912245 T C WB 100 406 FORKLIFT 3500# 1978	844R 605R 842R
3912241 T E EB 200 405 PALLET TRUCK 4500 # RAMCO-STANDARD 7220 BLDT & AREA -EB FORKLIFTS 3912242 T E EB 200 831 PALLET TRUCK PRIME MOVER 15698 BLDT & AREA -EB FORKLIFTS 3912243 T C WB 100 405 TRT LOADING FORKLIFT CLARK 685-82-BLDG & AREA -WB FORKLIFTS 3912244 T C WB 100 409 4000# ELECT FORKLIFT 19 CLARK NP246-2BLDG & AREA -WB FORKLIFTS 2912245 T C WB 100 406 FORKLIFT 3500# 1978 WALDON MOD 12501 BLDG & AREA -WB FORKLIFTS 3912245 T C WB 100 406 FORKLIFT 3500# 1978	844R 605R 842R
3912242 T E EB 200 831 PALLET TRUCK PRIME MOVER 15698 BLDT & AREA -EB FORKLIFTS 3912243 T C WB 100 405 TRT LOADING FORKLIFT CLARK 685-82-BLDG & AREA -WB FORKLIFTS 3912244 T C WB 100 409 4000# ELECT FORKLIFT 19 CLARK NP246-2BLDG & AREA -WB FORKLIFTS 2 3912245 T C WB 100 406 FORKLIFT 3500# 1978 WALDON MOD 12501 BLDG & AREA -WB FORKLIFTS 3	605R 842R
3912243 T C WB 100 405 TRT LOADING FORKLIFT CLARK 685-82-BLDG & AREA -WB FORKLIFTS 3912244 T C WB 100 409 4000# ELECT FORKLIFT 19 CLARK NP246-2BLDG & AREA -WB FORKLIFTS 2 3912245 T C WB 100 406 FORKLIFT 3500# 1978 WALDON MOD 12501 BLDG & AREA -WB FORKLIFTS 3	605R 842R
3912244 T C WB 100 409 4000# ELECT FORKLIFT 19 CLARK NP246-2BLDG & AREA -WB FORKLIFTS 2 3912245 T C WB 100 406 FORKLIFT 3500# 1978 WALDON MOD 12501 BLDG & AREA -WB FORKLIFTS 3	605R 842R
3912244 T C WB 100 409 4000# ELECT FORKLIFT 19 CLARK NP246-2BLDG & AREA -WB FORKLIFTS 2 3912245 T C WB 100 406 FORKLIFT 3500# 1978 WALDON MOD 12501 BLDG & AREA -WB FORKLIFTS 3	605R 842R
	842R
3912246 T C WB 100 416 5000# LP GAS 1978 HYSTER C002D20BLDG & AREA -WB FORKLIFTS 2	843R
3912247 T C WB 100 405 4000 # LP GAS 1978 HYSTER C002D20BLDG & AREA -WB FORKLIFTS 2	
3912248 T C WB 100 422 4000 # LP GAS 1978 HYSTER C002D20BLDG & AREA -WB FORKLIFTS	
3912249 T C WB 100 405 4000 # LP GAS 1978 HYSTER C002D00BLDG & AREA -WB FORKLIFTS	
	843R
3912251 T C WB 100 422 FORKLIFT-5000 LB LP-GAS HYSTER MOD COO3DO8BLDG & AREA -WB FORKLIFTS	
3912252 T C WB 100 405 FORKLIFT-5000 LB LP-GAS HYSTER MOD D003D08BLDG & AREA -WB FORKLIFTS	
3912253 T C WB 100 309 FORKLIFT-5000 LB LP-GAS HYSTER MOD D003D08BLDG & AREA -WB FORKLIFTS 2	842R
	078R
	843R
3912256 T E EB 277 843 PALLET TRUCK PRIME-MOVER 15676 #12 A WHSE FORKLIFTS	
3912257 T C WB 100 405 1978 6000 LB HYSTER D003D08BLDG & AREA -WB FORKLIFTS	
	078R
	840R
3912260 T C WB 100 406 1978 FORKLIFT 8000 HYSTER MOD A018D04BLDG & AREA -WB FORKLIFTS 3	078R
3912261 T C WB 100 406 1978 FORKLIFT 8000 HYSTER A018D04BLDG & AREA -WB FORKLIFTS 02	495R
	495R
	078R
	507R
3912265 T C EB 272 405 ELECTRIC RIDER 4000# CLARK NP246-14,4A,5&6 WHSE FORKLIFTS 2	841R
3912266 T C EB 272 405 ELECTRIC RIDER 4000# CLARK NP246-14,4A,5&6 WHSE FORKLIFTS	
3912267 T C WB 100 405 1978 ELECT RIDER 4000# CLARK NP246-1BLDG & AREA -WB FORKLIFTS 3	605R
	078R
	675R
3912270 T C WB 100 422 4000# NARROW AISLE 1978 CLARK NP246-1BLDG & AREA -WB FORKLIFTS	
3912271 T C WB 100 405 1970 ORDER PICKER 3000# HYSTER A118U41BLDG & AREA -WB FORKLIFTS	
3912272 T C WB 100 405 1970 ORDER PICKER 3000# HYSTER A118U41BLDG & AREA -WB FORKLIFTS 3	605R
3912273 T E WB 152 613 ALLET TRUCK HYD BARRETT ELEC. 1723602LAUNCH AR PON. FORKLIFTS	
3912274 T C WB 113 627 ROL-A-LIFT MANUAL SKARNES INC 3598-6 LBTF FORKLIFTS	
3912275 T C WB 113 627 ROL-A-LIFT MANUAL SKARNES INC 3597-6 LBTF FORKLIFTS	
3912276 T C WB 113 627 ROL-A-LIFT MANUAL SKARNES INC 3599-6 LBTF FORKLIFTS	
3912277 T C WB 113 627 ROL-A-LIFT MANUAL SKARNES INC 3596-6 LBTF FORKLIFTS	
	2842R
3912279 T C WB 127 405 FORKLIFT TRILOADER ELEC CLARK E685-65MULTI-PURP WHSE FORKLIFTS	605R
	659R
	659R
3912282 T C EB 269 405 FORKLIFT 4T (FRIG) DATSUN CFG 103#1 WHSE FORKLIFTS	
3912283 T C EB 269 405 FORKLIFT 4T (FRIG) DATSUN CFG 103#1 WHSE FORKLIFTS	
3912284 T C EB 269 405 FORKLIFT 4T (FRIG) DATSUN CFG 103#1 WHSE FORKLIFTS 3	660R
3912285 T C EB 200 602 FORKLIFT 2 TON FRIG CLARK C408-18BLDG & AREA -EB FORKLIFTS 3	660R
3912286 T C EB 200 602 FORKLIFT 2.5 TON FRIG DATSUN CFD-105BLDG & AREA -EB FORKLIFTS 3	660R
3912287 T C EB 200 602 FORKLIFT 2 TON FRIG TOWNOTER N/A BLDG & AREA -EB FORKLIFTS 3	660R
3912288 T C WB 127 338 FORKLIFT 4800 # LP GAS HYSTER COO2D22MULTI-PURP WHSE FORKLIFTS	

SEI IKK E/W	LUC	MANUFACIURERS	SERIAL LUCATION	CATEGORT	
JMBER CEO	CDE C/C EQUIP DESCRIPTION	NAME	NO. DESCRIPTION	DESCRIPTION	CARN
	114 406 82 11450 # DIESEL L/T				3771R
3912290 T C WB	114 406 82 11450 # DIESEL L/T 114 406 82 11450 # DIESEL L/T	HYSTER	C5D-223TRANSPORTATION	FORKLIFTS	
				FORKLIFTS	
	114 406 82 11450 # DIESEL L/T			FORKLIFTS	
	114 406 82 11450 # DIESEL L/T			FORKLIFTS	
	114 406 82 11450 # DIESEL L/T			FORKLIFTS	0000
	114 406 82 11450 # DIESEL L/T			FORKLIFTS	
	114 406 82 11450 # DIESEL L/T			FORKLIFTS	3605R
3912297 1 C WD	114 406 82 11450 # DIESEL L/T	NISIER	A190_E1TDAUCDOTATION	FORKLIFTS	3605R
2012290 T C UD	114 406 82 11450 # DIESEL L/T 130 409 82 4000# LPG L/T 130 405 82 4000# LPG L/T 269 405 82 4000# LPG L/T 142 409 82 4000# LPG L/T 142 405 82 4000# LPG L/T 144 406 82 30000 # DIESEL L/T	NISIER	DODO-DITAMSPORTATION	FORKLIFTS	3605R
3912299 1 C WD	130 409 62 4000# LPG L/1	nisiek uveted	DODIOSCALUM FAB SHOP	FORKLIFTS	
3912300 1 C WB	260 ANS 82 ANNOW LPG L/T	nisiek uveted	D2D1032ALUM FAB SRUP	FORKLIFTS	
3912301 1 C EB	1/3 /00 83 /000# LPG L/T	HISIER	DOUZDIO#1 WASE	FORKLIFTS	
3912302 I C WB	142 407 62 4000# LPG L/1	HISTER	DOUZDIOMOLI-PURP STOR	FORKLIFTS	
3912303 I C WB	142 403 62 4000# LPG L/I	HISTER	DUUZDIUMULI PORP SIOK	FORKLIFTS	
3712304 I C WD	114 406 81 15000 # DIESEL L/T	CATEDDILIAD	70V/97 TDANSPORTATION	FORKLIFTS FORKLIFTS	
3712303 T C WD	114 406 82 30000 # DIESEL L/T	CATERFILLAR	D100-10TDANCDODTATION		
	114 406 82 30600 # DIESEL L/T			FORKLIFTS FORKLIFTS	
	114 406 82 11450 # DIESEL L/T				
	114 406 82 11450 # DIESEL L/T			FORKLIFTS FORKLIFTS	
	128 406 82 11450 # DIESEL L/T			FORKLIFTS	
7012711 T C UD	11/ /OK 9000 # DIECEL L/T	UVETED	CED. 27/TDANCDODTATION	FORKLIFTO	
3012317 T C UR	114 406 8000 # DIESEL L/T	HYSTER	CSD-234TRANSPORTATION	FORKLIFTS	
3912313 T C WB	114 406 8000 # DIESEL L/T 114 406 8000 # DIESEL L/T 114 406 8000 # DIESEL L/T 128 405 8000 # DIESEL L/T 114 406 83 8000 # DIESEL L/T 128 409 83 4000# LPG L/T 127 417 83 5000 #LPG L/T 127 405 83 5000 # LPG L/T	HYSTER	C5D-234TRANSPORTATION	FORKLIFTS	
3912314 T C WB	114 406 8000 # DIESEL L/T	HYSTER	C5D-234TRANSPORTATION	FORKLIFTS	
3912315 T C WB	128 405 8000 # DIESEL L/T	HYSTER	C5D-234COMBINE SHOP	FORKLIFTS	
3912316 T C WB	114 406 83 8000 # DIESEL L/T	HYSTER	A18D-53TRANSPORTATION	FORKLIFTS	
3912317 T C WB	128 409 83 4000# LPG L/T	HYSTER	DOO2D11COMBINE SHOP	FORKLIFTS	
3912318 T C WB	127 417 83 5000 #LPG L/T	HYSTER	DOO2DO9MULTI-PURP WHSE	FORKLIFTS	
3912319 T C WB	127 405 83 5000 # LPG L/T	HYSTER	D002D01MULTI-PURP WHSE	FORKLIFTS	
3912320 T C WB	192 825 83 4000 # LPG L/T	HYSTER	D002D11SHEEMTLPCOMB SH	FORKLIFTS	
3912321 T C WB	192 409 83 5000# LPG L/T	HYSTER	DOOZDO9SHEEMTLPCOMB SH	FORKLIFTS	
3912322 T C WB	128 409 83 5000 # LPG L/T	HYSTER	F3D-210COMBINE SHOP	FORKLIFTS	
	193 855 83 DIESEL L/T 3000 #			FORKLIFTS	
	273 422 83 6000# LPG L/T			FORKLIFTS	
	193 422 83 6000 # LPG L/T		F3D-239ELECT-COMB SHOP	FORKLIFTS	
3912326 T C WB	113 417 6000 #LPG L/T	HYSTER	F3D-238LBTF	FORKLIFTS	
3912327 T C WB	113 338 5000# LPG L/T	HYSTER	F3D-210LBTF	FORKLIFTS	
3912328 T C EB	230 406 83 4000 # DIESEL L/T	WALDON	16213 TRANS OFF	FORKLIFTS	3605R
3912329 T C EB	230 406 83 4000 # DIESEL L/T	WALDON	16212 TRANS OFF	FORKLIFTS	3605R
3912330 T C EB	230 406 83 4000 # DIESEL L/T	WALDON	16211 TRANS OFF	FORKLIFTS	
3912331 T C WB	128 405 83 3750 # ELECT L/T	CLARK	NP246-OCOMBINE SHOP	FORKLIFTS	
3912332 T C WB	128 405 83 3750 # ELECT L/T	CLARK	NP246-OCOMBINE SHOP	FORKLIFTS	
3912333 T C EB	269 405 83 3750 # ELECT L/T	CLARK	NP246-0#1 WHSE	FORKLIFTS	
3912334 T C WB	128 409 83 3750 # ELECT L/T	CLARK	NP246-OCOMBINE SHOP	FORKLIFTS	
3912335 T C WB	128 405 83 2500 # D.C. L/T	CLARK	0081-53COMBINE SHOP	FORKLIFTS	
3912336 T C WB	128 405 83 2500 # D.C. L/T	CLARK	0080-53COMBINE SHOP	FORKLIFTS	
3912337 T C EB	200 406 FORKLIFT	CATERPILLAR	41X0158BLDG & AREA -EB	FORKLIFTS	

MANUFACTURERS SERIAL LOCATION

SET

TRK E/W LOC

ASSET	TRK	E/W	LOC			MANUFACTURERS	SERIAL	LOCATION	CATEGORY	
NUMBER				C/C	EQUIP DESCRIPTION	NAME	NO.	DESCRIPTION	DESCRIPTION	CARN
							•••••		•••••	
3912338	TC	EB	200	405	FORKLIFT	CATERPILLAR	35Y0042BLD	G & AREA -EB	FORKLIFTS	
3912339	TC	EB	200	405	FORKLIFT FORKLIFT 8000# DIESEL L/T FORKLIFT 77 8000 # L/T FORKLIFT EORKLIFT	CATERPILLAR	11Y524 BLD	G & AREA -EB	FORKLIFTS	
3912340	TC	EB	200	405	FORKLIFT	CATERPILLAR	10Y1103BLD	G & AREA -EB	FORKLIFTS	
3912341	TC	EB	200	890	8000# DIESEL L/T	HYSTER	C005B17BLD	G & AREA -EB	FORKLIFTS	
3912342	TC	EB	200	890	FORKLIFT	CATERPILLAR	41X0186BLD	G & AREA -EB	FORKLIFTS	3605R
3912346	TC	EB	200	890	77 8000 # L/T	HYSTER	C005D17BLD	G & AREA -EB	FORKLIFTS	
3912347	T C	EB	200	406	FORKLIFT	CATERPILLAR	72Y0029BLD	G & AREA -EB	FORKLIFTS	
3912348	тс	EB	200	406	FORKLIFT	HYSTER	B19P-19BLD	G & AREA -EB	FORKLIFTS	
3912349	TC	EB	200	406	FORKLIFT FORKLIFT	CATERPILLAR	41C0122BLD	G & AREA -EB	FORKLIFTS	
					FORKLIFT				FORKLIFTS	3561R
					PALLET JACK-5000#			A, 5&6 WHSE	FORKLIFTS	
3912357	7 T C	EB	277	818	PALLET JACK	WESLEY MFG	11D17Y8#12	A WHSE	FORKLIFTS	
3912358	T C	EB	272	827	83 3000 # ELECT L/T	CLARK	00134934,4	A, 5&6 WHSE	FORKLIFTS	
3912360) T C	WB	192	825	6000 # LIFT TRUCK CRAN	E WALLACE	3445-00SHE	EMTL-COMB SH	FORKLIFTS	
3912361	TC	WB	114	406	85 8000 # EIESEL L/T	HYSTER	A180-55TRA	NSPORTATION	FORKLIFTS	
3912367	? T C	WB	114	406	85 8000 # EIESEL L/T 85 8000 # EIESEL L/T 85 8000 # EIESEL L/T 85 11450 # DIESEL L/T	HYSTER	A18D-55TRA	NSPORTATION	FORKLIFTS	
3912363	TC	WB	114	406	85 8000 # EIESEL L/T	HYSTER	A180-55TRA	NSPORTATION	FORKLIFTS	
3912364	TC	WB	114	406	85 8000 # EIESEL L/T	HYSTER	A18D-55TRA	NSPORTATION	FORKLIFTS	
3912365	TC	WB	114	406	85 11450 # DIESEL L/T	HYSTER	COOSD24TRA	INSPORTATION	FORKLIFTS	
					85 8150 # LPG L/T	HYSTER	COOSD24MUL	TI-PURP WHSE	FORKLIFTS	
3912367	7 T C	WB	114	405	85 11450 # DIESEL L/T	HYSTER	D002D12TRA	NSPORTATION	FORKLIFTS	
3912368	3 T C	WB	114	406	85 8000 # DIESEL L/T	HYSTER	A18D553TRA	NSPORTATION	FORKLIFTS	
3912369	7 T C	WB	114	406	85 8000 # DIESEL L/T	HYSTER	A180553TRA	NSPORTATION	FORKLIFTS	
3912370	TC	WB	114	406	85 4-TON DIESEL L/T	HYSTER	C005D24TRA	NSPORTATION	FORKLIFTS	
					85 4 TON DIESEL L/T				FORKLIFTS	
					4000 # LPG L/T				FORKLIFTS	
					4000 # LPG L/T		CFG1050WAL		FORKLIFTS	
3912374	4 T C	WB	127	405	85 4000 # SWING MAST L	./ DREXEL	16002 MUI	TI-PURP WHSE	FORKLIFTS	
3912375	S T C	WB	3	817	86 4000 # ELECT WALKER 86 4000 # LPG L/T 86 4000 # LPG L/T	CLARK	ST245-0TR/	ACK 1 NORTH	FORKLIFTS	
3912376	STC	WB	127	405	86 4000 # LPG L/T	HYSTER	D002D13MUL	TI-PURP WHSE	FORKLIFTS	
3912377	7 T C	WB	162	422	86 4000 # LPG L/T	HYSTER	D002D13MO	-ASSY BAY4	FORKLIFTS	
3912378	3 T C	WB	127	338	86 4000 # LPG L/T			TI-PURP WHSE	FORKLIFTS	
					86 4000 # LPG L/T	HYSTER	D002D13MU	TI-PURP WHSE	FORKLIFTS	
3912380) T C	WB	100	806	86 4000 # ELECT WALKER	CLARK	\$5245-0BL	G & AREA -WB	FORKLIFTS	
391238	1 T C	WB	127	405	86 4000 # SWING MAST L	./ DREXEL	15018-1MU	TI-PURP WHSE	FORKLIFTS	
3912387	2 T C	: WB	127	405	86 4000 # SWING MAST L	./ DREXEL	15018-1MUI	TI-PURP WHSE	FORKLIFTS	
3912383	3 T C	WB	114	406	86 17 TON DIESEL L/T	HYSTER	B018D01TR/	ANSPORTATION	FORKLIFTS	
391238/	4 T C	WB	162	806	86 4000 # ELECT WALKER	CLARK	ST245-0M00	O-ASSY BAY4	FORKLIFTS	
3912385	5 T C	: EB	200	809	5500 # HAND PALLET TRU	IC ATLAS	P-0275 BL	G & AREA -EB	FORKLIFTS	
391238	6 T C	EB	200	809	5500 # HAND PALLET TRU	IC ATLAS	20278 BL	OG & AREA -EB	FORKLIFTS	
3912387	7 T C	: WB	129	422	86 2500 # ELECT FORTLE	F HYSTER	A174D-0MN	WHSE	FORKLIFTS	
391238	вто	EB	200	822	86 5000 # LPG L/T	HYSTER	F003A05BL	G & AREA -EB	FORKLIFTS	
3912389	9 T C	WB	133	835	86 4000 # ELECT FORTLI	F CLARK	ST245-0WE	T DK BLDG	FORKLIFTS	
3912390	отс	EB	230	406	87 8000 # DIESEL L/T	HYSTER	F005A02TR/	ANS OFF	FORKLIFTS	
391239°	1 T C	EB	230	406	87 8000 # DIESEL L/T	HYSTER	F005A02TR/	ANS OFF	FORKLIFTS	
3912397	2 T C	: WB	191	831	87 4000# SWING MAST L/	T DRCXEL	15018-1PI	PE-COMB SHOP	FORKLIFTS	
					87 6000 # DIESET L/T		Z126J15TR/	ANSPORTATION	FORKLIFTS	
					87 6000 # DIESET L/T			ANSPORTATION	FORKLIFTS	
					87 8000 # DIESEL L/T	CATERPILLAR	37W0566TR/	ANS OFF	FORKLIFTS	

SSET T	RK E/W	LOC			MANUFACTURERS	SERIAL LOCATION	CATEGORY	
UMBER C			C/C	EQUIP DESCRIPTION		NO. DESCRIPTION	DESCRIPTION	CARN
						•••••		•••••
				87 8000 # DIESEL L/T		A018D05TRANSPORTATION	FORKLIFTS	
						A018D05TRANSPORTATION	FORKLIFTS	
				87 8000 # DIESEL L/T			FORKLIFTS	
3912399 1	L C EB			87 8000 # DIESEL L/T			FORKLIFTS	
3912400 1	r C WB			87 4000 # SWING MAST L			FORKLIFTS	
3912401 1	C WB					B118D01MULTI-PURP WHSE	FORKLIFTS	
3912402 1	r C WB	127	338	87 3000 # ELECT L/T	HYSTER	B118D01MULTI-PURP WHSE	FORKLIFTS	
3912403 1	T C EB	222	826	87 1000 # ELECT WALKER	CLARK	S-30-03MACH SHOP	FORKLIFTS	
3912404	T C WB	129	405	87 3000 # ELECT L/T	HYSTER	B118D01MN WHSE	FORKLIFTS	
3912405 1				89 1000# ELECT WALKER			FORKLIFTS	
3912406	T C WB	100	406	89 8000 # DIESEL L/T	HYSTER	F005A07BLDG & AREA -WB	FORKLIFTS	
3912407	T C WB	100	406	89 4 TON DIESEL F/L	HYSTER	F005A07BLDG & AREA -WB	FORKLIFTS	
3912408	T C WB	100	406	89 4 TON DIESEL F/L	HYSTER	F005A07BLDG & AREA -WB	FORKLIFTS	
3913001	T C WB	100	406	70 TON TRACTOR 70 TON TRACTOR 100 TON TRACTOR 100 TON TRACTOR 350 TON TRACTOR	FAUN	168-191BLDG & AREA -WB 168-192BLDG & AREA -WB 168-193BLDG & AREA -WB	FAUN TRACTORS	3207R
3913002	T C WB	100	406	70 TON TRACTOR	FAUN	168-192BLDG & AREA -WB	FAUN TRACTORS	2617R
3913003	T C WB	100	406	100 TON TRACTOR	FAUN	168-193BLDG & AREA -WB	FAUN TRACTORS	3207R
3913004	T C WB	100	406	100 TON TRACTOR	FAUN	168-194BLDG & AREA -WB	FAUN TRACTORS	2617R
3913005	T C WB	100	700	JJU TON TRACTOR	I AUA	168-195BLDG & AREA -WB	FAUN TRACTORS	2514R
3913006		100	406	100 TON TRACTOR	OTTAWA COMMANDO	53600 BLDG & AREA -WB	FAUN TRACTORS	
3913007				100 TON TRACTOR		3028 BLDG & AREA -WB	FAUN TRACTORS	
3913008						3027 BLDG & AREA -WB	FAUN TRACTORS	
3914000						GEN PURBLDG & AREA -WB	FARM TRACTORS	
3914001				SUPER 2000		068-162BLDG & AREA -WB	FARM TRACTORS	
3914002				SUPER 2000		068-161BLDG & AREA -WB	FARM TRACTORS	
3914003		100		SUPER 2000		068-163BLDG & AREA -WB	FARM TRACTORS	01253R
3914004		100		SUPER 2000		068-164BLDG & AREA -WB	FARM TRACTORS	01059R
3914005				SUPER 2000		068-165BLDG & AREA -WB	FARM TRACTORS	
3914006		100		SUPER 2000		068-166BLDG & AREA -WB	FARM TRACTORS	01059R
3914007		100		SUPER 2000		068-167BLDG & AREA -WB	FARM TRACTORS	01883R
3914008		100		SUPER 2000 SUPER 2000		068-168BLDG & AREA -WB	FARM TRACTORS	242/42
				SUPER 2000		068-169BLDG & AREA -WB 068-170BLDG & AREA -WB	FARM TRACTORS	01041R
3914010				SUPER 4000		068-1708LDG & AREA -WB	FARM TRACTORS	3049R
				SUPER 4000		068-177BLDG & AREA -WB	FARM TRACTORS	01042R
				SUPER 4000		068-173BLDG & AREA -WB	FARM TRACTORS FARM TRACTORS	1 1 PDR 01040R
3914014		100		SUPER 4000		068-174BLDG & AREA -WB	FARM TRACTORS	
3914015				SUPER 5000		C330869BLDG & AREA -EB	FARM TRACTORS	01039R
3914016		100		BACK HOE		1196002BLDG & AREA -WB	FARM TRACTORS	01263R
3914017		100		FRONT END LOADER		68259 BLDG & AREA -WB	FARM TRACTORS	01283R
3914018		100		SUPER 2000		BJ42C05BLDG & AREA -WB	FARM TRACTORS	01299R
3914019				FRONT END LOADER		447A-16BLDG & AREA -WB	FARM TRACTORS	2646R
3914020				LAWN/GARDEN TRACTOR		995342 PLANT ENGR BLDG	FARM TRACTORS	20401
3914021				TRACTOR		9B58285BLDG & AREA -WB	FARM TRACTORS	
3914022				TRACTOR		9B64493BLDG & AREA -WB	FARM TRACTORS	
3914023						1649110BLDG & AREA -EB	FARM TRACTORS	
3914024				FRONT END LOADER BECAT		499-M-1BLDG & AREA -WB	FARM TRACTORS	01560R
3914025				FRONT END LOADER		C584124BLDG & AREA -WB	FARM TRACTORS	J.300K
				82 TRACTOR W/CAB		9A34403BLDG & AREA -WB	FARM TRACTORS	
				82 BACK HOE/END LOADER			FARM TRACTORS	
						,		

STATE STAT	ASSET	TRK E/W	LOC			MANUFACTURERS					CATEGORY	
3914028 T C & B 200 890 FARN TRACTOR 8USH HOD 668-1728LDG & AREA - EB FARM TRACTORS 5914030 T C will 114 406 85 FARN TRACTOR W/CAB FORD A116880PLANT ENGR BLDG FARM TRACTORS 5914031 T C will 103 406 85 FARN TRACTOR W/CAB FORD A116880PLANT ENGR BLDG FARM TRACTORS 5914032 T C will 100 406 85 FARN TRACTOR W/CAB MANAGE BESSTORD & AREA - 48 FARM TRACTORS 5914032 T C will 100 406 85 FARN TRACTOR W/CAB MANAGE BESSTORD & AREA - 48 FARM TRACTORS 5915003 T C will 100 406 50 FARM TRACTOR W/CAB MANAGE BESSTORD & AREA - 48 FARM TRACTORS 5915003 T C will 100 406 50 FT, 10 TON F/B WAGON MANAGE 12510 BLDG & AREA - 48 TRALLERS 5915003 T C will 100 406 50 FT, 10 TON F/B WAGON MANAGE 12513 BLDG & AREA - 48 TRALLERS 5915003 T C will 100 406 50 FT, 10 TON F/B WAGON MANAGE 12513 BLDG & AREA - 48 TRALLERS 5915003 T C will 100 406 50 FT, 10 TON F/B WAGON MANAGE 12513 BLDG & AREA - 48 TRALLERS 5915003 T C will 100 406 50 FT, 10 TON F/B WAGON MANAGE 12513 BLDG & AREA - 48 TRALLERS 5915003 T C will 100 406 50 FT, 10 TON F/B WAGON MANAGE 12516 BLDG & AREA - 48 TRALLERS 5915003 T C will 100 406 50 FT, 10 TON F/B WAGON MANAGE 12516 BLDG & AREA - 48 TRALLERS 5915003 T C will 100 406 50 FT, 10 TON F/B WAGON MANAGE 12516 BLDG & AREA - 48 TRALLERS 5915003 T C will 100 406 50 FT, 10 TON F/B WAGON MANAGE 12516 BLDG & AREA - 48 TRALLERS 5915003 T C will 100 406 50 FT, 10 TON F/B WAGON MANAGE 12516 BLDG & AREA - 48 TRALLERS 5915003 T C will 100 406 50 FT, 10 TON F/B WAGON MANAGE 12516 BLDG & AREA - 48 TRALLERS 5915003 T C will 100 406 50 FT, 30 TON F/B WAGON MANAGE 12516 BLDG & AREA - 48 TRALLERS 5915003 T C will 100 406 50 FT, 30 TON F/B WAGON MANAGE 12526 BLDG & AREA - 48 TRALLERS 5915003 T C will 100 406 50 TON TYPE 1 MANAGE 12526 BLDG & AREA - 48 TRALLERS 5915003 T C will 100 406 50 TM F/B WAGON MANAGE 12526 BLDG & AREA - 48 TRALLERS 5915003 T C will 100 406 50 TM F/B WAGON MANAGE 12526 BLDG & AREA - 48 TRALLERS 5915003 T C will 100 406 50 TM F/B	NUMBER	CEO	CDE (C/C								CARN
39110020 T C UB 131 602 & LANA/GABDER TRACTOR FORD AT16880PLANT ENGR BLDG FARM TRACTORS 39110021 T C UB 131 602 GRASS/ WED CUTTER N/A D519964PLANT ENGR BLDG FARM TRACTORS 59110022 T C UB 100 406 88 FARM TRACTOR W/CAB KAMAG B862599BLDG & AREA - UB FARM TRACTORS 3915000 T O UB 100 602 DIRECT MATL. COLLECTION KAMAG M/A BLDG & AREA - UB TRALLERS 3915001 T C UB 100 406 80 FARM TRACTOR FARM TRACTOR FARM TRACTORS 3915001 X C UB 100 0 TRALLER-REBULT 10 TON KAMAG M/A BLDG & AREA - UB TRALLERS 1231RR 3915001 X C UB 100 406 80 FARM TRACTOR FARM TRACTO			•••									*******
3914031 T C W	391402	BTCEB	200 8	890	FARM TRACTOR	BUSH HOG						
3914033 T C WB 131 602 GRASS/ WEED CUTTER	391402	9 T C WB	131 6	602	84 LAWN/GARDER TRACTOR	FORD						
\$914032 T C UB	391403	OTCWB	114 4	406	85 FARM TRACTOR W/CAB	FORD						
3915002 T C US	391403	1 T C WB	131 6	602	GRASS/ WEED CUTTER	N/A						
3915000 T O NB												
3915001 X C W3 100 0 TRAILER-REBUILT 10 TON KAMAG 12510 BLDG & AREA - W3 TRAILERS 3915002 T C W3 100 0 10 TON TYPE 1 KAMAG 12511 BLDG & AREA - W3 TRAILERS 3915003 X C W3 100 0 10 TON TYPE 1 KAMAG 12515 BLDG & AREA - W3 TRAILERS 3915005 T C W3 100 0 0 10 TON TYPE 1 KAMAG 12515 BLDG & AREA - W3 TRAILERS 3915005 T C W3 100 406 30 FT, 10 TON F/S WAGON KAMAG 12515 BLDG & AREA - W3 TRAILERS 3915007 T C W3 100 406 10 TON TYPE 1 KAMAG 12515 BLDG & AREA - W3 TRAILERS 3915007 T C W3 100 406 10 TON TYPE 1 KAMAG 12517 BLDG & AREA - W3 TRAILERS 3915007 T C W3 100 406 30 FT, 10 TON F/S WAGON KAMAG 12517 BLDG & AREA - W3 TRAILERS 3915007 T C W3 100 406 10 TON TYPE 1 KAMAG 12516 BLDG & AREA - W3 TRAILERS 3915010 X C W3 100 406 30 TON TYPE 1 KAMAG 12512 BLDG & AREA - W3 TRAILERS 3915011 X C W3 100 406 30 TON TYPE 1 KAMAG 12525 BLDG & AREA - W3 TRAILERS 3915012 T C W3 100 406 30 TON TYPE 1 KAMAG 12525 BLDG & AREA - W3 TRAILERS 3915014 T C W3 100 406 30 TON TYPE 1 KAMAG 12525 BLDG & AREA - W3 TRAILERS 3915015 T C W3 100 406 30 TON TYPE 1 KAMAG 12525 BLDG & AREA - W3 TRAILERS 3915015 T C W3 100 0 70 TON TYPE 1 KAMAG 12525 BLDG & AREA - W3 TRAILERS 3915015 T C W3 100 0 70 TON TYPE 1 KAMAG 12525 BLDG & AREA - W3 TRAILERS 3915016 T C W3 100 406 100 TON KAMAG 12525 BLDG & AREA - W3 TRAILERS 3915017 T C W3 100 406 100 TON TYPE 1 KAMAG 12525 BLDG & AREA - W3 TRAILERS 3915017 T C W3 100 406 100 TON TYPE 1 KAMAG 12525 BLDG & AREA - W3 TRAILERS 3915017 T C W3 100 406 100 TON TYPE 1 KAMAG 12525 BLDG & AREA - W3 TRAILERS 3915017 T C W3 100 406 100 TON TYPE 1 KAMAG 12525 BLDG & AREA - W3 TRAILERS 3915017 T C W3 100 406 100 TON TYPE 1 KAMAG 12525 BLDG & AREA - W3 TRAILERS 3915017 T C W3 100 406 BLDG TON TYPE 1 KAMAG 12525 BLDG & AREA - W3 TRAILERS 3915017 T C W3 100 406 BLDG TON TYPE 1 KAMAG 12525 BLDG & AREA - W3 TRAILERS 3915017 T C W3 100 406 BLDG TON TYPE 1 KAMAG 12525 BLDG & AREA - W3 TRAILERS 3915020 X C W3 100 0 0 100 TON TYPE 1 KAMAG 12525 BLDG & AREA - W3 TRAILERS 3915020 T C W3 100 406 BLDG TON TYPE 1 KAMAG 12525 BLDG & AREA - W3 TRA												
3915002 T C UB 100 406 30 FT, 10 TON F/B WAGON KAMAG 12511 BLDG & AREA - UB TRAILERS OPTERS 3915003 X C UB 100 0 10 TON TYPE 1 KAMAG 12515 BLDG & AREA - UB TRAILERS OPTERS 3915005 T C UB 100 406 10 TON KAMAG 12515 BLDG & AREA - UB TRAILERS OPTERS 3915005 T C UB 100 406 10 TON KAMAG 12515 BLDG & AREA - UB TRAILERS OPTERS 3915005 T C UB 100 406 30 FT, 10 TON F/B WAGON KAMAG 12515 BLDG & AREA - UB TRAILERS S915007 T C UB 100 406 30 FT, 10 TON F/B WAGON KAMAG 12515 BLDG & AREA - UB TRAILERS S915007 T C UB 100 406 30 FT, 10 TON F/B WAGON KAMAG 12517 BLDG & AREA - UB TRAILERS S915007 T C UB 100 406 10 TON TYPE 1 KAMAG 12515 BLDG & AREA - UB TRAILERS S915007 T C UB 100 406 30 FT, 10 TON TYPE 1 KAMAG 12516 BLDG & AREA - UB TRAILERS 1494RR 3915010 X C UB 100 406 30 TON TYPE 1 KAMAG 12525 BLDG & AREA - UB TRAILERS 3915010 X C UB 100 406 30 TON TYPE 1 KAMAG 12525 BLDG & AREA - UB TRAILERS 3915015 T C UB 100 406 30 TON TYPE 1 KAMAG 12525 BLDG & AREA - UB TRAILERS 02249R 3915015 T C UB 100 406 30 TON TYPE 1 KAMAG 12525 BLDG & AREA - UB TRAILERS 02249R 3915015 T C UB 100 0 0 70 TON TYPE 1 KAMAG 12525 BLDG & AREA - UB TRAILERS 0249R 3915015 T C UB 100 0 0 70 TON TYPE 1 KAMAG 12525 BLDG & AREA - UB TRAILERS 0249R 3915015 T C UB 100 0 0 70 TON TYPE 1 KAMAG 12525 BLDG & AREA - UB TRAILERS 0249R 3915015 T C UB 100 0 0 70 TON TYPE 1 KAMAG 12525 BLDG & AREA - UB TRAILERS 044RR 3915015 T C UB 100 0 0 70 TON TYPE 1 KAMAG 15545 BLDG & AREA - UB TRAILERS 044RR 3915015 T C UB 100 0 0 70 TON TYPE 1 KAMAG 5545 BLDG & AREA - UB TRAILERS 044RR 3915015 T C UB 100 0 0 70 TON TYPE 1 KAMAG 5545 BLDG & AREA - UB TRAILERS 044RR 3915015 T C UB 100 0 0 0 TO TON TYPE 1 KAMAG 5545 BLDG & AREA - UB TRAILERS 044RR 3915015 T C UB 100 0 0 0 TO TON TYPE 1 KAMAG 5545 BLDG & AREA - UB TRAILERS 044RR 3915015 T C UB 100 0 0 0 TO TON TYPE 1 KAMAG 5545 BLDG & AREA - UB TRAILERS 044RR 3915015 T C UB 100 0 0 0 TO TON TYPE 1 KAMAG 5545 BLDG & AREA - UB TRAILERS 1257R 3915025 T C UB 100 0 0 0 C S TON BIRNINGHMA TANK NA BLDG & AREA - UB TRAILERS 1257R 3915025 T C UB												427400
3915003 X C WB 100 0 10 TON TYPE 1 KAMAG 12515 BLDG & AREA - WB TRAILERS 0973RR 3915005 T C WB 100 0405 10 TON TYPE 1 KAMAG 12515 BLDG & AREA - WB TRAILERS 3915005 T C WB 100 0405 10 TON TYPE 1 KAMAG 12515 BLDG & AREA - WB TRAILERS 3915006 T C WB 100 0405 30 FT, 10 TON F/B WAGON KAMAG 12515 BLDG & AREA - WB TRAILERS 3915007 T C WB 100 0405 30 FT, 10 TON F/B WAGON KAMAG 12515 BLDG & AREA - WB TRAILERS 3915009 T C WB 100 0405 30 FT, 10 TON F/B WAGON KAMAG 12515 BLDG & AREA - WB TRAILERS 3915010 T C WB 100 0405 30 FT, 10 TON F/B WAGON KAMAG 12516 BLDG & AREA - WB TRAILERS 3915010 T C WB 100 0405 30 TON TYPE 1 KAMAG 12518 BLDG & AREA - WB TRAILERS 3915011 T C WB 100 0405 30 TON TYPE 1 KAMAG 12518 BLDG & AREA - WB TRAILERS 3915012 T C WB 100 0405 30 TON TYPE 1 KAMAG 12520 BLDG & AREA - WB TRAILERS 3915013 T C WB 100 0405 30 TON TYPE 1 KAMAG 12520 BLDG & AREA - WB TRAILERS 3915014 T C WB 100 0405 30 TON TYPE 1 KAMAG 12520 BLDG & AREA - WB TRAILERS 3915015 T C WB 100 0 070 TON TYPE 1 KAMAG 12520 BLDG & AREA - WB TRAILERS 3915015 T C WB 100 0 070 TON TYPE 1 KAMAG 12525 BLDG & AREA - WB TRAILERS 3915016 T C WB 100 0 070 TON TYPE 1 KAMAG 12526 BLDG & AREA - WB TRAILERS 3915017 T C WB 100 0 070 TON TYPE 1 KAMAG 12526 BLDG & AREA - WB TRAILERS 3915017 C WB 100 0 070 TON KAMAG 12526 BLDG & AREA - WB TRAILERS 3915017 C WB 100 0 070 TON TYPE 1 KAMAG 12526 BLDG & AREA - WB TRAILERS 3915017 C WB 100 0 070 TON KAMAG 12526 BLDG & AREA - WB TRAILERS 3915017 C WB 100 0 070 TON KAMAG 12526 BLDG & AREA - WB TRAILERS 3915017 C WB 100 0 070 TON TYPE 1 KAMAG 12526 BLDG & AREA - WB TRAILERS 3915017 C WB 100 0 00 100 TON TYPE 1 KAMAG 12526 BLDG & AREA - WB TRAILERS 3915017 C WB 100 0 00 100 TON TYPE 1 KAMAG 12526 BLDG & AREA - WB TRAILERS 3915017 C WB 100 0 00 100 TON TYPE 1 KAMAG 12526 BLDG & AREA - WB TRAILERS 3915017 C WB 100 0 00 100 TON TYPE 1 KAMAG 12526 BLDG & AREA - WB TRAILERS 3915020 T C WB 100 0 00 100 TON TYPE 1 KAMAG 12526 BLDG & AREA - WB TRAILERS 3915020 T C WB 100 0 00 60 60 FT, 2.5 TON F/B WAGO UTILITY W25459 BLDG & AREA												123 IKK
3915004 X C WB 100 0 10 TON TYPE 1 KANAG 12513 BLDG & AREA - WB TRAILERS 3915005 T C WB 100 406 50 FT, 10 TON F/B WAGON KANAG 12513 BLDG & AREA - WB TRAILERS 3915006 T C WB 100 406 50 FT, 10 TON F/B WAGON KANAG 12513 BLDG & AREA - WB TRAILERS 3915007 T C WB 100 406 50 FT, 10 TON F/B WAGON KANAG 12515 BLDG & AREA - WB TRAILERS 3915008 T C WB 100 406 50 FT, 10 TON F/B WAGON KANAG 12516 BLDG & AREA - WB TRAILERS 3915010 X C WB 100 406 10 TON												00778
3915005 T C WB 100 406 10 TON 17PE 1 KAMAG 12512 BLDG & AREA - WB TRAILERS 3915007 T C WB 100 406 30 FT, 10 TON F/B WAGON KAMAG 12519 BLDG & AREA - WB TRAILERS 3915008 T C WB 100 406 30 FT, 10 TON F/B WAGON KAMAG 12519 BLDG & AREA - WB TRAILERS 3915010 X C WB 100 406 10 TON KAMAG 12519 BLDG & AREA - WB TRAILERS 3915010 X C WB 100 406 10 TON TYPE 1 KAMAG 12519 BLDG & AREA - WB TRAILERS 3915011 X C WB 100 406 30 TON TYPE 1 KAMAG 12528 BLDG & AREA - WB TRAILERS 3915012 T C WB 100 406 30 TON TYPE 1 KAMAG 12522 BLDG & AREA - WB TRAILERS 3915013 T C WB 100 406 30 TON TYPE 1 KAMAG 12522 BLDG & AREA - WB TRAILERS 3915015 T C WB 100 406 30 TON TYPE 1 KAMAG 12523 BLDG & AREA - WB TRAILERS 3915015 T C WB 100 406 30 TON TYPE 1 KAMAG 12523 BLDG & AREA - WB TRAILERS 3915016 T C WB 100 0 70 TON TYPE 1 KAMAG 12526 BLDG & AREA - WB TRAILERS 3915016 T C WB 100 0 70 TON TYPE 1 KAMAG 12526 BLDG & AREA - WB TRAILERS 3915016 X C WB 100 0 70 TON TYPE 1 KAMAG 12526 BLDG & AREA - WB TRAILERS 3915016 X C WB 100 0 70 TON TYPE 1 KAMAG 12526 BLDG & AREA - WB TRAILERS 3915017 C WB 100 0 70 TON TYPE 1 KAMAG 12526 BLDG & AREA - WB TRAILERS 3915018 T C WB 100 0 100 TON TYPE 1 KAMAG 12526 BLDG & AREA - WB TRAILERS 3915019 T C WB 100 406 100 TON TYPE 1 KAMAG 12526 BLDG & AREA - WB TRAILERS 3915020 T C WB 100 406 100 TON TYPE 1 KAMAG 12526 BLDG & AREA - WB TRAILERS 3915021 T C WB 100 406 100 TON TYPE 1 KAMAG 12526 BLDG & AREA - WB TRAILERS 3915022 T C WB 100 406 100 TON TYPE 1 KAMAG 5547 BLDG & AREA - WB TRAILERS 3915022 T C WB 100 406 MORK WAGON WELLS CARGO CO2818 BLDG & AREA - WB TRAILERS 3915025 T C WB 100 406 62 5 TON BIRNINGHAM TANK N/A BLDG & AREA - WB TRAILERS 3915027 X C WB 100 0 2.5 TON BIRNINGHAM TANK N/A BLDG & AREA - WB TRAILERS 3915028 X C WB 100 0 0 2.5 TON BIRNINGHAM TANK N/A BLDG & AREA - WB TRAILERS 3915030 X C WB 100 0 0 64 57 T, 5 TON F/B WAGON ALABAMA 655705 BLDG & AREA - WB TRAILERS 3915030 T C WB 100 406 62 FT, 5 TON F/B WAGON ALABAMA 655708 BLDG & AREA - WB TRAILERS 3915030 T C WB 100 406 62 FT, 5 TON F/B WAGON ALABAMA 6557	391500	3 X C WB	100	0	10 TON TYPE 1	KAMAG	12514	BLDG (& AKEA	-MR		
3915005 T C WB 100 406 10 TON 17PE 1 KAMAG 12512 BLDG & AREA - WB TRAILERS 3915007 T C WB 100 406 30 FT, 10 TON F/B WAGON KAMAG 12519 BLDG & AREA - WB TRAILERS 3915008 T C WB 100 406 30 FT, 10 TON F/B WAGON KAMAG 12519 BLDG & AREA - WB TRAILERS 3915010 X C WB 100 406 10 TON KAMAG 12519 BLDG & AREA - WB TRAILERS 3915010 X C WB 100 406 10 TON TYPE 1 KAMAG 12519 BLDG & AREA - WB TRAILERS 3915011 X C WB 100 406 30 TON TYPE 1 KAMAG 12528 BLDG & AREA - WB TRAILERS 3915012 T C WB 100 406 30 TON TYPE 1 KAMAG 12522 BLDG & AREA - WB TRAILERS 3915013 T C WB 100 406 30 TON TYPE 1 KAMAG 12522 BLDG & AREA - WB TRAILERS 3915015 T C WB 100 406 30 TON TYPE 1 KAMAG 12523 BLDG & AREA - WB TRAILERS 3915015 T C WB 100 406 30 TON TYPE 1 KAMAG 12523 BLDG & AREA - WB TRAILERS 3915016 T C WB 100 0 70 TON TYPE 1 KAMAG 12526 BLDG & AREA - WB TRAILERS 3915016 T C WB 100 0 70 TON TYPE 1 KAMAG 12526 BLDG & AREA - WB TRAILERS 3915016 X C WB 100 0 70 TON TYPE 1 KAMAG 12526 BLDG & AREA - WB TRAILERS 3915016 X C WB 100 0 70 TON TYPE 1 KAMAG 12526 BLDG & AREA - WB TRAILERS 3915017 C WB 100 0 70 TON TYPE 1 KAMAG 12526 BLDG & AREA - WB TRAILERS 3915018 T C WB 100 0 100 TON TYPE 1 KAMAG 12526 BLDG & AREA - WB TRAILERS 3915019 T C WB 100 406 100 TON TYPE 1 KAMAG 12526 BLDG & AREA - WB TRAILERS 3915020 T C WB 100 406 100 TON TYPE 1 KAMAG 12526 BLDG & AREA - WB TRAILERS 3915021 T C WB 100 406 100 TON TYPE 1 KAMAG 12526 BLDG & AREA - WB TRAILERS 3915022 T C WB 100 406 100 TON TYPE 1 KAMAG 5547 BLDG & AREA - WB TRAILERS 3915022 T C WB 100 406 MORK WAGON WELLS CARGO CO2818 BLDG & AREA - WB TRAILERS 3915025 T C WB 100 406 62 5 TON BIRNINGHAM TANK N/A BLDG & AREA - WB TRAILERS 3915027 X C WB 100 0 2.5 TON BIRNINGHAM TANK N/A BLDG & AREA - WB TRAILERS 3915028 X C WB 100 0 0 2.5 TON BIRNINGHAM TANK N/A BLDG & AREA - WB TRAILERS 3915030 X C WB 100 0 0 64 57 T, 5 TON F/B WAGON ALABAMA 655705 BLDG & AREA - WB TRAILERS 3915030 T C WB 100 406 62 FT, 5 TON F/B WAGON ALABAMA 655708 BLDG & AREA - WB TRAILERS 3915030 T C WB 100 406 62 FT, 5 TON F/B WAGON ALABAMA 6557	391500	4 X C WB	100	0	10 TON TYPE 1	KAMAG	12515	BEDG (& AKEA	-MR		U9/2KK
3915008 T C WB 100 406 30 FT, 10 TON F/B WAGON KAMAG 12516 BLDG & AREA - WB TRAILERS 3915009 T C WB 100 406 10 TON TYPE 1 KAMAG 12518 BLDG & AREA - WB TRAILERS 3915011 T C WB 100 406 30 TON TYPE 1 KAMAG 12522 BLDG & AREA - WB TRAILERS 3915012 T C WB 100 406 30 TON TYPE 1 KAMAG 12522 BLDG & AREA - WB TRAILERS 3915013 T C WB 100 406 30 TON TYPE 1 KAMAG 12522 BLDG & AREA - WB TRAILERS 3915013 T C WB 100 406 30 TON TYPE 1 KAMAG 12522 BLDG & AREA - WB TRAILERS 3915015 T C WB 100 406 30 TON TYPE 1 KAMAG 12520 BLDG & AREA - WB TRAILERS 3915016 X C WB 100 0 70 TON TYPE 1 KAMAG 12526 BLDG & AREA - WB TRAILERS 3915016 X C WB 100 0 70 TON TYPE 1 KAMAG 12526 BLDG & AREA - WB TRAILERS 3915016 X C WB 100 0 70 TON KAMAG 12526 BLDG & AREA - WB TRAILERS 3915017 T C WB 100 0 70 TON KAMAG 12526 BLDG & AREA - WB TRAILERS 3915018 T C WB 100 406 100 TON TYPE 1 KAMAG 12526 BLDG & AREA - WB TRAILERS 3915019 T C WB 100 0 0 70 TON KAMAG 12526 BLDG & AREA - WB TRAILERS 3915019 T C WB 100 406 100 TON TYPE 1 KAMAG 5546 BLDG & AREA - WB TRAILERS 3915020 T C WB 100 406 100 TON TYPE 1 KAMAG 5546 BLDG & AREA - WB TRAILERS 3915022 T C WB 100 406 B FT, 2.5 TON MAGON BIRMINGHAM TANK NA BLDG & AREA - WB TRAILERS 3915023 T C WB 100 406 B FT, 2.5 TON F/B WAGO UTILITY W25459 BLDG & AREA - WB TRAILERS 3915025 T C WB 100 406 B FT, 2.5 TON F/B WAGO UTILITY W25459 BLDG & AREA - WB TRAILERS 3915027 T C WB 100 406 B FT, 2.5 TON F/B WAGO UTILITY W25459 BLDG & AREA - WB TRAILERS 3915028 X C WB 100 0 2.5 TON BIRMINGHAM TANK NA BLDG & AREA - WB TRAILERS 3915027 T C WB 100 406 C FT, 5 TON F/B WAGO ALBAMA 665707 BLDG & AREA - WB TRAILERS 3915037 T C WB 100 406 C FT, 5 TON F/B WAGON ALBAMA 665707 BLDG & AREA - WB TRAILERS 3915037 T C WB 100 406 C FT, 5 TON F/B WAGON ALBAMA 665707 BLDG & AREA - WB TRAILERS 3915037 T C WB 100 406 C FT, 5 TON F/B WAGON ALBAMA 665707 BLDG & AREA - WB TRAILERS 3915037 T C WB 100 406 C FT, 5 TON F/B WAGON ALBAMA 665707 BLDG & AREA - WB TRAILERS 3915037 T C WB 100 406 C FT, 5 TON F/B WAGON ALBAMA 665707 BLDG & AREA - WB TRAILERS 3915037	391500	5 T C WB	100	406	1U TON	KAMAG	12513	RTDG (& AKEA	-MR		
3915008 T C WB 100 406 30 FT, 10 TON F/B WAGON KAMAG 12516 BLDG & AREA - WB TRAILERS 3915009 T C WB 100 406 10 TON TYPE 1 KAMAG 12518 BLDG & AREA - WB TRAILERS 3915011 T C WB 100 406 30 TON TYPE 1 KAMAG 12522 BLDG & AREA - WB TRAILERS 3915012 T C WB 100 406 30 TON TYPE 1 KAMAG 12522 BLDG & AREA - WB TRAILERS 3915013 T C WB 100 406 30 TON TYPE 1 KAMAG 12522 BLDG & AREA - WB TRAILERS 3915013 T C WB 100 406 30 TON TYPE 1 KAMAG 12522 BLDG & AREA - WB TRAILERS 3915015 T C WB 100 406 30 TON TYPE 1 KAMAG 12520 BLDG & AREA - WB TRAILERS 3915016 X C WB 100 0 70 TON TYPE 1 KAMAG 12526 BLDG & AREA - WB TRAILERS 3915016 X C WB 100 0 70 TON TYPE 1 KAMAG 12526 BLDG & AREA - WB TRAILERS 3915016 X C WB 100 0 70 TON KAMAG 12526 BLDG & AREA - WB TRAILERS 3915017 T C WB 100 0 70 TON KAMAG 12526 BLDG & AREA - WB TRAILERS 3915018 T C WB 100 406 100 TON TYPE 1 KAMAG 12526 BLDG & AREA - WB TRAILERS 3915019 T C WB 100 0 0 70 TON KAMAG 12526 BLDG & AREA - WB TRAILERS 3915019 T C WB 100 406 100 TON TYPE 1 KAMAG 5546 BLDG & AREA - WB TRAILERS 3915020 T C WB 100 406 100 TON TYPE 1 KAMAG 5546 BLDG & AREA - WB TRAILERS 3915022 T C WB 100 406 B FT, 2.5 TON MAGON BIRMINGHAM TANK NA BLDG & AREA - WB TRAILERS 3915023 T C WB 100 406 B FT, 2.5 TON F/B WAGO UTILITY W25459 BLDG & AREA - WB TRAILERS 3915025 T C WB 100 406 B FT, 2.5 TON F/B WAGO UTILITY W25459 BLDG & AREA - WB TRAILERS 3915027 T C WB 100 406 B FT, 2.5 TON F/B WAGO UTILITY W25459 BLDG & AREA - WB TRAILERS 3915028 X C WB 100 0 2.5 TON BIRMINGHAM TANK NA BLDG & AREA - WB TRAILERS 3915027 T C WB 100 406 C FT, 5 TON F/B WAGO ALBAMA 665707 BLDG & AREA - WB TRAILERS 3915037 T C WB 100 406 C FT, 5 TON F/B WAGON ALBAMA 665707 BLDG & AREA - WB TRAILERS 3915037 T C WB 100 406 C FT, 5 TON F/B WAGON ALBAMA 665707 BLDG & AREA - WB TRAILERS 3915037 T C WB 100 406 C FT, 5 TON F/B WAGON ALBAMA 665707 BLDG & AREA - WB TRAILERS 3915037 T C WB 100 406 C FT, 5 TON F/B WAGON ALBAMA 665707 BLDG & AREA - WB TRAILERS 3915037 T C WB 100 406 C FT, 5 TON F/B WAGON ALBAMA 665707 BLDG & AREA - WB TRAILERS 3915037	391500	6 T C WB	100	406	30 FT, 10 TON F/B WAGON	KAMAG	12512	BEDG (& AKEA	-MR		
3915010 X C UB 100 0 10 TON TYPE1 KAMAG 12518 BLOG & AREA - UB TRAILERS 3915011 T C UB 100 406 30 TON TYPE 1 KAMAG 12522 BLOG & AREA - UB TRAILERS 3915012 T C UB 100 406 30 TON TYPE 1 KAMAG 12522 BLOG & AREA - UB TRAILERS 3915013 T C UB 100 406 30 TON TYPE 1 KAMAG 12524 BLOG & AREA - UB TRAILERS 3915015 T C UB 100 0 70 TON TYPE 1 KAMAG 12524 BLOG & AREA - UB TRAILERS 3915015 T C UB 100 0 70 TON TYPE 1 KAMAG 12524 BLOG & AREA - UB TRAILERS 3915016 X C UB 100 0 70 TON TYPE 1 KAMAG 12525 BLOG & AREA - UB TRAILERS 3915017 T C UB 100 0 70 TON TYPE 1 KAMAG 12526 BLOG & AREA - UB TRAILERS 3915018 T C UB 100 0 0 70 TON KAMAG 12526 BLOG & AREA - UB TRAILERS 3915018 T C UB 100 0 0 70 TON KAMAG 12526 BLOG & AREA - UB TRAILERS 3915019 T C UB 100 406 100 TON KAMAG 5545 BLOG & AREA - UB TRAILERS 3915020 X C UB 100 406 100 TON KAMAG 5546 BLOG & AREA - UB TRAILERS 3915021 T C UB 134 134 8 X 5 FT, 2.5 TON WAGON BIRMINGHAM TANK TAWAG 5547 BLOG & AREA - UB TRAILERS 3915022 T C UB 100 406 WORK WAGON BIRMINGHAM TANK NA BLOG & AREA - UB TRAILERS 3915025 T C UB 100 406 18 FT, 2.5 TON F/B WAGO UTILITY H25439 BLOG & AREA - UB TRAILERS 3915025 T C UB 100 0 0 2.5 TON BIRMINGHAM TANK NA BLOG & AREA - UB TRAILERS 3915026 X C UB 100 0 0 2.5 TON BIRMINGHAM TANK NA BLOG & AREA - UB TRAILERS 3915027 X C UB 100 0 0 2.5 TON BIRMINGHAM TANK NA BLOG & AREA - UB TRAILERS 3915028 X C UB 100 0 0 2.5 TON BIRMINGHAM TANK NA BLOG & AREA - UB TRAILERS 3915029 T C UB 100 406 2.5 TON BIRMINGHAM TANK NA BLOG & AREA - UB TRAILERS 3915030 X C UB 100 0 PASSENGER-VOOD 5 TON BIRMINGHAM TANK NA BLOG & AREA - UB TRAILERS 3915031 X C UB 100 0 PASSENGER-VOOD 5 TON BIRMINGHAM TANK NA BLOG & AREA - UB TRAILERS 3915037 T C EB 200 406 20 FT, 5 TON F/B WAGON ALABAMA G65706 BLOG & AREA - UB TRAILERS 3915037 T C EB 200 406 20 FT, 5 TON F/B WAGON ALABAMA G65706 BLOG & AREA - UB TRAILERS 3915037 T C EB 200 406 20 FT, 5 TON F/B WAGON ALABAMA G65706 BLOG & AREA - UB TRAILERS 3915037 T C EB 200 406 20 FT, 5 TON F/B WAGON ALABAMA G65706 BLOG & AREA - UB TRAILERS 3915037 T C EB 2	391500	7 T C WB	100	406	10 TON TYPE 1	KAMAG	12517	REDG	& AKEA	-MR		
3915010 X C UB 100 0 10 TON TYPE1 KAMAG 12518 BLOG & AREA - UB TRAILERS 3915011 T C UB 100 406 30 TON TYPE 1 KAMAG 12522 BLOG & AREA - UB TRAILERS 3915012 T C UB 100 406 30 TON TYPE 1 KAMAG 12522 BLOG & AREA - UB TRAILERS 3915013 T C UB 100 406 30 TON TYPE 1 KAMAG 12524 BLOG & AREA - UB TRAILERS 3915015 T C UB 100 0 70 TON TYPE 1 KAMAG 12524 BLOG & AREA - UB TRAILERS 3915015 T C UB 100 0 70 TON TYPE 1 KAMAG 12524 BLOG & AREA - UB TRAILERS 3915016 X C UB 100 0 70 TON TYPE 1 KAMAG 12525 BLOG & AREA - UB TRAILERS 3915017 T C UB 100 0 70 TON TYPE 1 KAMAG 12526 BLOG & AREA - UB TRAILERS 3915018 T C UB 100 0 0 70 TON KAMAG 12526 BLOG & AREA - UB TRAILERS 3915018 T C UB 100 0 0 70 TON KAMAG 12526 BLOG & AREA - UB TRAILERS 3915019 T C UB 100 406 100 TON KAMAG 5545 BLOG & AREA - UB TRAILERS 3915020 X C UB 100 406 100 TON KAMAG 5546 BLOG & AREA - UB TRAILERS 3915021 T C UB 134 134 8 X 5 FT, 2.5 TON WAGON BIRMINGHAM TANK TAWAG 5547 BLOG & AREA - UB TRAILERS 3915022 T C UB 100 406 WORK WAGON BIRMINGHAM TANK NA BLOG & AREA - UB TRAILERS 3915025 T C UB 100 406 18 FT, 2.5 TON F/B WAGO UTILITY H25439 BLOG & AREA - UB TRAILERS 3915025 T C UB 100 0 0 2.5 TON BIRMINGHAM TANK NA BLOG & AREA - UB TRAILERS 3915026 X C UB 100 0 0 2.5 TON BIRMINGHAM TANK NA BLOG & AREA - UB TRAILERS 3915027 X C UB 100 0 0 2.5 TON BIRMINGHAM TANK NA BLOG & AREA - UB TRAILERS 3915028 X C UB 100 0 0 2.5 TON BIRMINGHAM TANK NA BLOG & AREA - UB TRAILERS 3915029 T C UB 100 406 2.5 TON BIRMINGHAM TANK NA BLOG & AREA - UB TRAILERS 3915030 X C UB 100 0 PASSENGER-VOOD 5 TON BIRMINGHAM TANK NA BLOG & AREA - UB TRAILERS 3915031 X C UB 100 0 PASSENGER-VOOD 5 TON BIRMINGHAM TANK NA BLOG & AREA - UB TRAILERS 3915037 T C EB 200 406 20 FT, 5 TON F/B WAGON ALABAMA G65706 BLOG & AREA - UB TRAILERS 3915037 T C EB 200 406 20 FT, 5 TON F/B WAGON ALABAMA G65706 BLOG & AREA - UB TRAILERS 3915037 T C EB 200 406 20 FT, 5 TON F/B WAGON ALABAMA G65706 BLOG & AREA - UB TRAILERS 3915037 T C EB 200 406 20 FT, 5 TON F/B WAGON ALABAMA G65706 BLOG & AREA - UB TRAILERS 3915037 T C EB 2	391500	8 T C WB	100	406	30 FT, 10 TON F/B WAGON	₹ KAMAG	12516	BFDG 4	& AKEA	-MR		
3915011 T C WB 100 406 30 TON TYPE 1 KAMAG 12522 BLDG & AREA - WB TRAILERS 3915012 T C WB 100 406 30 TON TYPE 1 KAMAG 12523/2BLDG & AREA - WB TRAILERS 3915013 T C WB 100 406 30 TON TYPE 1 KAMAG 12520 BLDG & AREA - WB TRAILERS 3915014 T C WB 100 406 30 TON TYPE 1 KAMAG 12521 BLDG & AREA - WB TRAILERS 3915016 X C WB 100 0 70 TON TYPE 1 KAMAG 12521 BLDG & AREA - WB TRAILERS 3915016 X C WB 100 0 70 TON TYPE 1 KAMAG 12525 BLDG & AREA - WB TRAILERS 3915016 X C WB 100 0 70 TON TYPE 1 KAMAG 12525 BLDG & AREA - WB TRAILERS 3915016 X C WB 100 0 70 TON TYPE 1 KAMAG 12526 BLDG & AREA - WB TRAILERS 3915018 T C WB 100 406 100 TON TYPE 1 KAMAG 12526 BLDG & AREA - WB TRAILERS 3915019 T C WB 100 406 100 TON TYPE 1 KAMAG 5546 BLDG & AREA - WB TRAILERS 3915019 T C WB 100 406 100 TON TYPE 1 KAMAG 5546 BLDG & AREA - WB TRAILERS 3915020 X C WB 100 0 0 100 TON TYPE 1 KAMAG 5546 BLDG & AREA - WB TRAILERS 3915021 T C WB 100 406 LOTON KAMAG 12526 BLDG & AREA - WB TRAILERS 3915021 T C WB 100 406 LOTON KAMAG 12526 BLDG & AREA - WB TRAILERS 3915021 T C WB 100 406 LOTON KAMAG 12526 BLDG & AREA - WB TRAILERS 3915021 T C WB 100 406 LOTON KAMAG 12526 BLDG & AREA - WB TRAILERS 3915025 T C WB 100 406 LOTON WELLS CARCOLUCATED TRAILERS 3915027 T C WB 100 406 LOTON BIRMINGHAM TANK W/A BLDG & AREA - WB TRAILERS 3915028 X C WB 100 0 2.5 TON BIRMINGHAM TANK M/A BLDG & AREA - WB TRAILERS 3915028 X C WB 100 0 0 2.5 TON BIRMINGHAM TANK M/A BLDG & AREA - WB TRAILERS 3915037 T C WB 100 406 25 T ON F/B WAGON ALABAMA G65706 BLDG & AREA - WB TRAILERS 3915037 T C WB 100 406 25 T ON F/B WAGON ALABAMA G65706 BLDG & AREA - WB TRAILERS 3915037 T C WB 100 406 20 FT, 5 TON F/B WAGON ALABAMA G65706 BLDG & AREA - WB TRAILERS 3915037 T C WB 100 406 40 FT, 5 TON F/B WAGON ALABAMA G65706 BLDG & AREA - WB TRAILERS 3915037 T C WB 100 406 40 FT, 5 TON F/B WAGON ALABAMA G65706 BLDG & AREA - WB TRAILERS 3915037 T C WB 100	391500	9 T C WB	100	406	10 TON	KAMAG	12519	REDG	& AKEA	-MR		4/0/00
3915012 T C WB 100 406 30 FT, 30 TON F/B WAGON KAMAG 12523/28LDG & AREA -WB TRAILERS 02203R 3915013 T C WB 100 406 30 TON TYPE 1 KAMAG 12520 BLDG & AREA -WB TRAILERS 02203R 3915014 T C WB 100 0 70 TON TYPE 1 KAMAG 12524 BLDG & AREA -WB TRAILERS 02203R 3915015 T C WB 100 0 70 TON TYPE 1 KAMAG 12524 BLDG & AREA -WB TRAILERS 1413RR 3915016 X C WB 100 0 70 TON TYPE 1 KAMAG 12525 BLDG & AREA -WB TRAILERS 0943RR 3915017 T C WB 100 406 100 TON TYPE 1 KAMAG 12526 BLDG & AREA -WB TRAILERS 0943RR 3915017 T C WB 100 406 100 TON TYPE 1 KAMAG 12526 BLDG & AREA -WB TRAILERS 0944RR 3915018 T C WB 100 406 100 TON TYPE 1 KAMAG 5545 BLDG & AREA -WB TRAILERS 3645R 3915020 X C WB 100 0 100 TON TYPE 1 KAMAG 5545 BLDG & AREA -WB TRAILERS 0974RR 3915021 T C WB 100 406 100 TON TYPE 1 KAMAG 5546 BLDG & AREA -WB TRAILERS 0974R 3915021 T C WB 100 406 KW WAGON BIRMINGHAM TANK NAMAG 5547 BLDG & AREA -WB TRAILERS 1235R 3915022 T C WB 100 406 KW WAGON BIRMINGHAM TANK NAMAG 1540 & AREA -WB TRAILERS 1235R 3915025 T C WB 100 406 KW WAGON WELLS CARGO WC281S BLDG & AREA -WB TRAILERS 1235R 3915025 T C WB 100 0 0 2.5 TON BIRMINGHAM TANK NAMAG 12540 BLDG & AREA -WB TRAILERS 3168R 3915027 X C WB 100 0 2.5 TON BIRMINGHAM TANK NAW NAW BLDG & AREA -WB TRAILERS 13018R 3915027 X C WB 100 0 0 2.5 TON BIRMINGHAM TANK NAW NAW BLDG & AREA -WB TRAILERS 1301RR 3915027 X C WB 100 0 0 2.5 TON BIRMINGHAM TANK NAW S251621BLDG & AREA -WB TRAILERS 1301RR 3915027 X C WB 100 0 0 2.5 TON BIRMINGHAM TANK NAW BLDG & AREA -WB TRAILERS 1301RR 3915027 X C WB 100 0 0 2.5 TON BIRMINGHAM TANK NAW S251621BLDG & AREA -WB TRAILERS 1301RR 3915037 X C WB 100 0 0 2.5 TON BIRMINGHAM TANK NAW S251621BLDG & AREA -WB TRAILERS 1302RR 3915031 X C WB 100 0 0 PASSENGER-WOOD 5 TON BIRMINGHAM TANK NAW BLDG & AREA -WB TRAILERS 1329RR 3915031 X C WB 100 0 0 PASSENGER-WOOD 5 TON BIRMINGHAM TANK NAW BLDG & AREA -WB TRAILERS 1329RR 3915031 X C WB 100 0 0 PASSENGER-WOOD 5 TON BIRMINGHAM TANK NAW BLDG & AREA -WB TRAILERS 1329RR 3915037 T C EB 200 406 20 FT, 5 TON F/B WAGON ALABAMA G65706 BLDG & AREA					10 TON TYPE1	KAMAG	12518	BLDG	& AREA	-WB		1494RR
3915013 T C WB 100 406 30 TON TYPE 1 KAMAG 12520 BLDG & AREA - WB TRAILERS 02203R 3915014 T C WB 100 00 70 TON TYPE 1 KAMAG 12521 BLDG & AREA - WB TRAILERS 1413RR 3915016 X C WB 100 0 70 TON TYPE 1 KAMAG 12525 BLDG & AREA - WB TRAILERS 1413RR 3915016 X C WB 100 0 70 TON TYPE 1 KAMAG 12525 BLDG & AREA - WB TRAILERS 0943RR 3915017 T C WB 100 0 70 TON TYPE 1 KAMAG 12525 BLDG & AREA - WB TRAILERS 0944RR 3915018 T C WB 100 406 100 TON TYPE 1 KAMAG 12526 BLDG & AREA - WB TRAILERS 0944RR 3915019 T C WB 100 406 100 TON TYPE 1 KAMAG 5545 BLDG & AREA - WB TRAILERS 3645R 3915020 X C WB 100 406 100 TON TYPE 1 KAMAG 5546 BLDG & AREA - WB TRAILERS 3645R 3915021 T C WB 100 406 LS TON BIRMINGHAM TANK 1734 TRAIL. BLDG TRAILERS 1235R 3915022 T C WB 100 406 MORK WAGON WELLS CARGO WC281S BLDG & AREA - WB TRAILERS 02214 3915024 T C WB 100 406 MORK WAGON WELLS CARGO WC281S BLDG & AREA - WB TRAILERS 1368R 3915025 T C EB 200 406 18 FT, 2.5 TON F/B WAGO UTILITY H25439 BLDG & AREA - WB TRAILERS 1368R 3915027 X C WB 100 0 2.5 TON BIRMINGHAM TANK N/A BLDG & AREA - WB TRAILERS 1301RR 3915028 X C WB 100 0 2.5 TON BIRMINGHAM TANK N/A BLDG & AREA - WB TRAILERS 1301RR 3915027 X C WB 100 0 0 2.5 TON BIRMINGHAM TANK N/A BLDG & AREA - WB TRAILERS 1301RR 3915030 X C WB 100 0 0 2.5 TON BIRMINGHAM TANK N/A BLDG & AREA - WB TRAILERS 1301RR 3915030 X C WB 100 0 0 PASSENGER-WOOD 5 TON BIRMINGHAM TANK N/A BLDG & AREA - WB TRAILERS 1302RR 3915030 X C WB 100 0 PASSENGER-WOOD 5 TON BIRMINGHAM TANK N/A BLDG & AREA - WB TRAILERS 1329RR 3915031 X C WB 100 0 PASSENGER-WOOD 5 TON BIRMINGHAM TANK N/A BLDG & AREA - WB TRAILERS 1329RR 3915037 C WB 200 406 20 FT, 5 TON F/B WAGON ALABAMA G65708 BLDG & AREA - WB TRAILERS 1329RR 3915037 T C WB 200 406 20 FT, 5 TON F/B WAGON ALABAMA G65708 BLDG & AREA - WB TRAILERS 1329RR 3915037 T C WB 200 406 25 FT, 5 TON F/B WAGON BIRMINGHAM TANK N/A BLDG & AREA - WB TRAILERS 1329RR 3915037 T C WB 200 406 25 FT, 5 TON F/B WAGON ALABAMA G65708 BLDG & AREA - WB TRAILERS 3571R 3915037 T C WB 200 406 25 FT, 5 TON F/B WAGON ALABAMA G6570	391501	1 T C WB	100	406	30 TON TYPE 1	KAMAG	12522	BLDG	& AREA	-MB		
3915014 T C WB 100 406 30 TON TYPE 1 KAMAG 12521 BLDG & AREA - WB TRAILERS 02249R 3915015 T C WB 100 0 70 TON TYPE 1 KAMAG 12525 BLDG & AREA - WB TRAILERS 1413RR 3915016 X C WB 100 0 70 TON TYPE 1 KAMAG 12525 BLDG & AREA - WB TRAILERS 0943RR 3915017 T C WB 100 406 100 TON TYPE 1 KAMAG 12525 BLDG & AREA - WB TRAILERS 0943RR 3915018 T C WB 100 406 100 TON TYPE 1 KAMAG 545 BLDG & AREA - WB TRAILERS 0944RR 3915019 T C WB 100 406 100 TON TYPE 1 KAMAG 545 BLDG & AREA - WB TRAILERS 3645R 3915020 X C WB 100 0 100 TON TYPE 1 KAMAG 5546 BLDG & AREA - WB TRAILERS 0974R 3915021 T C WB 103 4134 134 8 X 5 FT, 2.5 TON WAGON BIRMINGHAM TANK 1734 TRAIN. BLDG TRAILERS 1235R 3915022 T C WB 100 406 WORK WAGON WELLS CARGO WC281S BLDG & AREA - WB TRAILERS 1235R 3915025 T C WB 100 406 MORK WAGON WELLS CARGO WC281S BLDG & AREA - WB TRAILERS 3168R 3915026 X C WB 100 406 18 FT, 2.5 TON F/B WAGO UTILITY H25439 BLDG & AREA - WB TRAILERS 3168R 3915027 X C WB 100 406 18 FT, 2.5 TON BIRMINGHAM TANK N/A BLDG & AREA - WB TRAILERS 3168R 3915027 X C WB 100 0 2.5 TON BIRMINGHAM TANK N/A BLDG & AREA - WB TRAILERS 1301RR 3915028 X C WB 100 0 2.5 TON BIRMINGHAM TANK N/A BLDG & AREA - WB TRAILERS 1301RR 3915028 X C WB 100 0 0 2.5 TON BIRMINGHAM TANK N/A BLDG & AREA - WB TRAILERS 1302RR 3915030 X C WB 100 0 0 PASSENGER-WOOD 5 TON BIRMINGHAM TANK N/A BLDG & AREA - WB TRAILERS 1302RR 3915031 X C WB 100 0 PASSENGER-WOOD 5 TON BIRMINGHAM TANK N/A BLDG & AREA - WB TRAILERS 1302RR 3915033 T C WB 100 0 PASSENGER-WOOD 5 TON BIRMINGHAM TANK N/A BLDG & AREA - WB TRAILERS 1329RR 3915035 T C WB 100 406 45 FT, 5 TON F/B WAGON ALABAMA G65708 BLDG & AREA - WB TRAILERS 1329RR 3915036 T C WB 100 406 45 FT, 5 TON F/B WAGON ALABAMA G65708 BLDG & AREA - WB TRAILERS 1329RR 3915037 T C WB 100 406 405 TT, 5 TON F/B WAGON ALABAMA G65708 BLDG & AREA - WB TRAILERS 1329RR 3915037 T C WB 100 406 45 FT, HWY FLATBED BROWN M689450BLDG & AREA - WB TRAILERS 1329RR 3915037 T C WB 100 406 45 FT, HWY FLATBED BROWN M689450BLDG & AREA - WB TRAILERS 1329RR 3915037 T C WB 100 406 45 FT, HWY					30 FT, 30 TON F/B WAGO	N KAMAG	12523/	2BLDG	& AREA	-WB		
3915015 T C WB 100 0 70 TON TYPE 1 KAMAG 12524 BLDG & AREA -WB TRAILERS 0943RR 3915017 T C WB 100 0 70 TON TYPE 1 KAMAG 12525 BLDG & AREA -WB TRAILERS 0944RR 3915017 T C WB 100 406 100 TON TYPE 1 KAMAG 5545 BLDG & AREA -WB TRAILERS 0944RR 3915018 T C WB 100 406 100 TON TYPE 1 KAMAG 5545 BLDG & AREA -WB TRAILERS 3645R 3915020 X C WB 100 0 100 TON TYPE 1 KAMAG 5546 BLDG & AREA -WB TRAILERS 3645R 3915021 T C WB 100 406 100 TON TYPE 1 KAMAG 5546 BLDG & AREA -WB TRAILERS 3645R 3915021 T C WB 100 406 2.5 TON BIRMINGHAM TANK 1734 TRAIN. BLDG TRAILERS 1235R 3915022 T C WB 100 406 MORK WAGON WELLS CARGO WC281S BLDG & AREA -WB TRAILERS 1235R 3915025 T C WB 100 406 18 FT, 2.5 TON F/B WAGO UTILITY H25439 BLDG & AREA -WB TRAILERS 3168R 3915026 X C WB 100 0 2.5 TON BIRMINGHAM TANK 1734 BLDG & AREA -WB TRAILERS 1197R 3915027 X C WB 100 0 2.5 TON BIRMINGHAM TANK 1746 BLDG & AREA -WB TRAILERS 1197R 3915027 X C WB 100 0 2.5 TON BIRMINGHAM TANK 1748 BLDG & AREA -WB TRAILERS 1301RR 3915028 X C WB 100 0 2.5 TON BIRMINGHAM TANK 1740 BLDG & AREA -WB TRAILERS 1301RR 3915029 T C WB 100 406 2.5 TON BIRMINGHAM TANK 1740 BLDG & AREA -WB TRAILERS 1302RR 3915030 X C WB 100 0 PASSENGER-WOOD 5 TON BIRMINGHAM TANK N/A BLDG & AREA -WB TRAILERS 1329RR 3915031 X C WB 100 0 PASSENGER-WOOD 5 TON BIRMINGHAM TANK N/A BLDG & AREA -WB TRAILERS 1329RR 3915032 T C B 200 406 20 FT, 5 TON F/B WAGON ALABAMA G65708 BLDG & AREA -WB TRAILERS 1329RR 3915033 T C B 200 406 20 FT, 5 TON F/B WAGON ALABAMA G65708 BLDG & AREA -WB TRAILERS 1329RR 3915034 T C WB 100 406 420 FT, 5 TON F/B WAGON ALABAMA G65708 BLDG & AREA -WB TRAILERS 1329RR 3915035 T C WB 100 406 425 FT, HLY FLATBED BROWN M699106BLDG & AREA -WB TRAILERS 1329RR 3915037 T C WB 100 406 45 FT, HLY FLATBED BROWN M699106BLDG & AREA -WB TRAILERS 1329RR 3915037 T C WB 100 406 45 FT, HLY FLATBED BROWN M699106BLDG & AREA -WB TRAILERS 1329RR 3915037 T C WB 100 406 45 FT, HLY FLATBED BROWN M699106BLDG & AREA -WB TRAILERS 1329RR 3915037 T C WB 100 406 45 FT, HLY FLATBED BROWN M699106BLDG & AREA -WB TRAILERS 141LERS												
3915016 X C WB 100 0 70 TON TYPE 1 KAMAG 12525 BLDG & AREA -WB TRAILERS 0943RR 3915017 T C WB 100 0 406 100 TON TYPE 1 KAMAG 12526 BLDG & AREA -WB TRAILERS 0944RR 3915018 T C WB 100 406 100 TON TYPE 1 KAMAG 5545 BLDG & AREA -WB TRAILERS 3645R 3915020 X C WB 100 406 100 TON TYPE 1 KAMAG 5546 BLDG & AREA -WB TRAILERS 3645R 3915020 X C WB 100 0 100 TON TYPE 1 KAMAG 5546 BLDG & AREA -WB TRAILERS 3645R 3915021 T C WB 103 406 2.5 TON BIRMINGHAM TANK 1734 TRAIN. BLDG TRAILERS 1235R 3915022 T C WB 100 406 WORK WAGON WELLS CARGO WC281S BLDG & AREA -WB TRAILERS 02214 3915024 T C WB 100 406 WORK WAGON WELLS CARGO WC281S BLDG & AREA -WB TRAILERS 3168R 3915025 T C EB 200 406 18 FT, 2.5 TON F/B WAGO UTILITY H25450 BLDG & AREA -WB TRAILERS 3168R 3915026 X C WB 100 0 2.5 TON BIRMINGHAM TANK 1244 BLDG & AREA -WB TRAILERS 1301RR 3915027 X C WB 100 0 2.5 TON BIRMINGHAM TANK N/A BLDG & AREA -WB TRAILERS 1301RR 3915028 X C WB 100 0 2.5 TON BIRMINGHAM TANK N/A BLDG & AREA -WB TRAILERS 1301RR 3915029 T C WB 100 406 2.5 TON BIRMINGHAM TANK N/A BLDG & AREA -WB TRAILERS 1302RR 3915031 X C WB 100 0 PASSENGER-WOOD 5 TON BIRMINGHAM TANK N/A BLDG & AREA -WB TRAILERS 1302RR 3915037 T C EB 200 406 20 FT, 5 TON F/B WAGON ALABAMA G65706 BLDG & AREA -WB TRAILERS 1329RR 3915037 T C EB 200 406 20 FT, 5 TON F/B WAGON ALABAMA G65706 BLDG & AREA -WB TRAILERS 3718R 3915037 T C EB 200 406 20 FT, 5 TON F/B WAGON ALABAMA G65706 BLDG & AREA -WB TRAILERS 3718R 3915037 T C EB 200 406 20 FT, 5 TON F/B WAGON ALABAMA G65706 BLDG & AREA -WB TRAILERS 3718R 3915037 T C EB 200 406 60 TON LOWBOY BIRMINGHAM TANK 1-1148 BLDG & AREA -WB TRAILERS 3718R 3915037 T C WB 100 406 405 TT, HLY FLATBED BROWN M691106BLDG & AREA -WB TRAILERS 3718LERS 3715037 T C WB 100 406 405 TT, HLY FLATBED BROWN M69450BLDG & AREA -WB TRAILERS 3718LERS 3715037 T C WB 100 406 405 TT, HLY FLATBED BROWN M69450BLDG & AREA -WB TRAILERS 3718LERS 3715037 T C WB 100 406 405 TT, HLY FLATBED BROWN M69450BLDG & AREA -WB TRAILERS 3718LERS 3715037 T C WB 100 406 405 TT, HLY FLATBED BROWN M69450BLDG & AREA												
3915017 T C WB 100 0 70 TON KAMAG 12526 BLDG & AREA -WB TRAILERS 3645R 3915018 T C WB 100 406 100 TON TYPE 1 KAMAG 5545 BLDG & AREA -WB TRAILERS 3645R 3915020 X C WB 100 0 100 TON TYPE 1 KAMAG 5546 BLDG & AREA -WB TRAILERS 3645R 3915021 T C WB 134 134 8 X 5 FT, 2.5 TON WAGON BIRMINGHAM TANK 1734 TRAIN. BLDG TRAILERS 1235R 3915022 T C WB 100 406 C.5 TON BIRMINGHAM TANK N/A BLDG & AREA -WB TRAILERS 1235R 3915024 T C WB 100 406 MORK WAGON WELLS CARGO WC281S BLDG & AREA -WB TRAILERS 1235R 3915025 T C C WB 100 406 18 FT, 2.5 TON F/B WAGO UTILITY H25439 BLDG & AREA -WB TRAILERS 3168R 3915026 X C WB 100 0 2.5 TON BIRMINGHAM TANK 1244 BLDG & AREA -WB TRAILERS 1197R 3915027 X C WB 100 0 2.5 TON BIRMINGHAM TANK N/A BLDG & AREA -WB TRAILERS 1197R 3915028 X C WB 100 0 2.5 TON BIRMINGHAM TANK S21621BLDG & AREA -WB TRAILERS 1301RR 3915029 T C WB 100 406 2.5 TON BIRMINGHAM TANK N/A BLDG & AREA -WB TRAILERS 1301RR 3915028 X C WB 100 0 2.5 TON BIRMINGHAM TANK N/A BLDG & AREA -WB TRAILERS 1301RR 3915028 X C WB 100 0 406 2.5 TON BIRMINGHAM TANK N/A BLDG & AREA -WB TRAILERS 1302RR 3915031 X C WB 100 0 PASSENGER-WOOD 5 TON BIRMINGHAM TANK N/A BLDG & AREA -WB TRAILERS 1329RR 3915033 X C WB 100 0 PASSENGER-WOOD 5 TON BIRMINGHAM TANK N/A BLDG & AREA -WB TRAILERS 1329RR 3915033 T C EB 200 406 20 FT, 5 TON F/B WAGON ALABAMA G65707 BLDG & AREA -WB TRAILERS 1329RR 3915034 T C EB 200 406 20 FT, 5 TON F/B WAGON ALABAMA G65708 BLDG & AREA -WB TRAILERS 3716RR 3915037 T C EB 200 406 20 FT, 5 TON F/B WAGON ALABAMA G65708 BLDG & AREA -WB TRAILERS 3716RR 3915037 T C EB 200 406 20 FT, 5 TON F/B WAGON BIRMINGHAM TANK T-52929BLDG & AREA -WB TRAILERS 3716RR 3915037 T C EB 200 406 62 FT, 1 TON F/B WAGON BIRMINGHAM TANK T-52929BLDG & AREA -WB TRAILERS 3716RR 3915037 T C EB 200 406 62 FT, 1 TON F/B WAGON BIRMINGHAM TANK T-1148 BLDG & AREA -WB TRAILERS 3716RR 3915037 T C EB 200 406 62 FT, 1 TON F/B WAGON BIRMINGHAM TANK T-1148 BLDG & AREA -WB TRAILERS 3716RR 3915037 T C WB 100 406 405 FT, HWY FLATBED BROWN M691106BLD & AREA -WB TRAILERS TRAILERS 3715037												
3915018 T C WB 100 406 100 TON TYPE 1 KAMAG 5545 BLDG & AREA -WB TRAILERS 3645R 3915019 T C WB 100 406 100 TON KAMAG 5546 BLDG & AREA -WB TRAILERS 3645R 3915020 X C WB 100 0 100 TON TYPE 1 KAMAG 5546 BLDG & AREA -WB TRAILERS 9748 3915021 T C WB 134 134 8 X 5 FT,2.5 TON WAGON BIRMINGHAM TANK 1734 TRAIN. BLDG TRAILERS 1235R 3915022 T C WB 100 406 L5.5 TON BIRMINGHAM TANK N/A BLDG & AREA -WB TRAILERS 1235R 3915022 T C WB 100 406 MORK WAGON WELLS CARGO WC281S BLDG & AREA -WB TRAILERS 1235R 3915025 T C EB 200 406 18 FT, 2.5 TON F/B WAGO UTILITY H25439 BLDG & AREA -WB TRAILERS 3168R 3915025 T C EB 200 406 18 FT, 2.5 TON BIRMINGHAM TANK 1745 BLDG & AREA -WB TRAILERS 1197R 3915026 X C WB 100 0 2.5 TON BIRMINGHAM TANK 1244 BLDG & AREA -WB TRAILERS 1301RR 3915027 X C WB 100 0 2.5 TON BIRMINGHAM TANK N/A BLDG & AREA -WB TRAILERS 1301RR 3915028 X C WB 100 0 2.5 TON BIRMINGHAM TANK N/A BLDG & AREA -WB TRAILERS 1301RR 3915028 X C WB 100 0 2.5 TON BIRMINGHAM TANK N/A BLDG & AREA -WB TRAILERS 1301RR 3915030 X C WB 100 0 PASSENGER-WOOD 5 TON BIRMINGHAM TANK N/A BLDG & AREA -WB TRAILERS 1302RR 3915031 X C WB 100 0 PASSENGER-WOOD 5 TON BIRMINGHAM TANK N/A BLDG & AREA -WB TRAILERS 1329RR 3915032 T C EB 200 406 26 FT, 5 TON F/B WAGON ALABAMA G65707 BLDG & AREA -WB TRAILERS 1329RR 3915033 T C EB 200 406 20 FT, 5 TON F/B WAGON ALABAMA G65708 BLDG & AREA -EB TRAILERS 3915035 T C WB 100 406 2.5 TON BIRMINGHAM TANK N/A BLDG & AREA -EB TRAILERS 3915037 T C EB 200 406 20 FT, 5 TON F/B WAGON ALABAMA G65708 BLDG & AREA -EB TRAILERS 3915037 T C EB 200 406 25 FT, 13 TON LOWBOY BIRMINGHAM TANK 1-1148 BLDG & AREA -EB TRAILERS 3915037 T C EB 200 406 5 FT, HWY FLATBED BROWN M689450BLDG & AREA -WB TRAILERS 3915037 T C WB 100 406 45 FT, HWY FLATBED BROWN M689450BLDG & AREA -WB TRAILERS 391504 T C WB 100 406 5 FT, HWY FLATBED BROWN M689450BLDG & AREA -WB TRAILERS 391504 T C WB 100 406 5 FT, HWY FLATBED BROWN M689450BLDG & AREA -WB TRAILERS 391504 T C WB 100 406 5 FT, HWY FLATBED BROWN M689450BLDG & AREA -WB TRAILERS 391504 T C WB 100 406 5 FT, HWY F												
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3915026 X C WB 100 0 2.5 TON BIRMINGHAM TANK 1244 BLDG & AREA -WB TRAILERS 1301RR 3915027 X C WB 100 0 2.5 TON BIRMINGHAM TANK N/A BLDG & AREA -WB TRAILERS 1301RR 3915028 X C WB 100 0 2.5 TON BIRMINGHAM TANK \$251621BLDG & AREA -WB TRAILERS 1302RR 3915029 T C WB 100 406 2.5 TON BIRMINGHAM TANK \$251621BLDG & AREA -WB TRAILERS 02454 3915030 X C WB 100 0 PASSENGER-WOOD 5 TON BIRMINGHAM TANK N/A BLDG & AREA -WB TRAILERS 1329RR 3915031 X C WB 100 0 PASSENGER-WOOD 5 TON BIRMINGHAM TANK N/A BLDG & AREA -WB TRAILERS 1329RR 3915032 T C EB 200 406 26 FT, 5 TON F/B WAGON ALABAMA G65707 BLDG & AREA -EB TRAILERS 3915033 T C EB 200 406 20 FT, 5 TON F/B WAGON ALABAMA G65708 BLDG & AREA -EB TRAILERS 3915035 T C WB 100 406 100 TON LOWBOY BIRMINGHAM TANK 16100FLBLDG & AREA -EB TRAILERS 3915036 T C EB 200 406 30 TON LOWBOY WAGON BIRMINGHAM TANK T-52929BLDG & AREA -EB TRAILERS 3915037 T C EB 200 406 23 FT, 13 TON LOWBOY BIRMINGHAM TANK T-52929BLDG & AREA -EB TRAILERS 3915038 T C WB 100 406 45 FT, HWY FLATBED BROWN M689450BLDG & AREA -WB TRAILERS 3915039 T C WB 100 406 TRAILER-2 TON RED BROWN M6991106BLDG & AREA -WB TRAILERS 3915040 T C WB 100 406 45 FT, HWY FLATBED BROWN 04-1568BLDG & AREA -WB TRAILERS 3915041 T C WB 100 406 45 FT, HWY FLATBED FRUEHAUF FW12002BLDG & AREA -WB TRAILERS 3915041 T C WB 100 406 45 FT, HWY FLATBED FRUEHAUF FW12002BLDG & AREA -WB TRAILERS 3915041 T C WB 100 406 45 FT, HWY FLATBED FRUEHAUF FW12002BLDG & AREA -WB TRAILERS 3915041 T C WB 100 406 45 FT, HWY FLATBED FRUEHAUF FW12002BLDG & AREA -WB TRAILERS 3915041 T C WB 100 406 45 FT, HWY FLATBED FRUEHAUF FW12002BLDG & AREA -WB TRAILERS 3915041 T C WB 100 406 45 FT, HWY FLATBED FRUEHAUF FW12002BLDG & AREA -WB TRAILERS												02214
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3915027 X C WB 100 0 2.5 TON BIRMINGHAM TANK N/A BLDG & AREA -WB TRAILERS 1301RR 3915028 X C WB 100 0 2.5 TON BIRMINGHAM TANK \$251621BLDG & AREA -WB TRAILERS 1302RR 3915029 T C WB 100 406 2.5 TON BIRMINGHAM TANK 1740 BLDG & AREA -WB TRAILERS 02454 3915030 X C WB 100 0 PASSENGER-WOOD 5 TON BIRMINGHAM TANK N/A BLDG & AREA -WB TRAILERS 1329RR 3915031 X C WB 100 0 PASSENGER-WOOD 5 TON BIRMINGHAM TANK N/A BLDG & AREA -WB TRAILERS 1329RR 3915032 T C EB 200 406 26 FT, 5 TON F/B WAGON ALABAMA G65707 BLDG & AREA -EB TRAILERS 3915033 T C EB 200 406 20 FT, 5 TON F/B WAGON ALABAMA G65706 BLDG & AREA -EB TRAILERS 3915035 T C WB 100 406 100 TON LOWBOY BIRMINGHAM TANK 16100FLBLDG & AREA -WB TRAILERS 3915036 T C EB 200 406 30 TON LOWBOY WAGON BIRMINGHAM TANK T-52929BLDG & AREA -EB TRAILERS 3915037 T C EB 200 406 23 FT, 13 TON LOWBOY BIRMINGHAM TANK T-1148 BLDG & AREA -EB TRAILERS 3915038 T C WB 100 406 45 FT, HWY FLATBED BROWN M689450BLDG & AREA -WB TRAILERS 3915039 T C WB 100 406 2.5 TON RED BROWN M691106BLDG & AREA -WB TRAILERS 3915040 T C WB 100 406 45 FT, HWY FLATBED FRUEHAUF FW12002BLDG & AREA -WB TRAILERS 3915041 T C WB 100 406 45 FT, HWY FLATBED FRUEHAUF FW12002BLDG & AREA -WB TRAILERS 3915041 T C WB 100 406 45 FT, HWY FLATBED FRUEHAUF FW12002BLDG & AREA -WB TRAILERS 3915041 T C WB 100 406 45 FT, HWY FLATBED FRUEHAUF FW12002BLDG & AREA -WB TRAILERS 3915041 T C WB 100 406 45 FT, HWY FLATBED FRUEHAUF FW12002BLDG & AREA -WB TRAILERS 3915041 T C WB 100 406 45 FT, HWY FLATBED FRUEHAUF FW12002BLDG & AREA -WB TRAILERS 3915041 T C WB 100 406 45 FT, HWY FLATBED FRUEHAUF FW12002BLDG & AREA -WB TRAILERS 3915041 T C WB 100 406 45 FT, HWY FLATBED FRUEHAUF FW12002BLDG & AREA -WB TRAILERS												
3915028 X C WB 100 0 2.5 TON BIRMINGHAM TANK \$2516218LDG & AREA -WB TRAILERS 02454 3915029 T C WB 100 406 2.5 TON BIRMINGHAM TANK 1740 BLDG & AREA -WB TRAILERS 02454 3915030 X C WB 100 0 PASSENGER-WOOD 5 TON BIRMINGHAM TANK N/A BLDG & AREA -WB TRAILERS 1329RR 3915031 X C WB 100 0 PASSENGER-WOOD 5 TON BIRMINGHAM TANK N/A BLDG & AREA -WB TRAILERS 1329RR 3915032 T C EB 200 406 26 FT, 5 TON F/B WAGON ALABAMA G65707 BLDG & AREA -EB TRAILERS 3915033 T C EB 200 406 20 FT, 5 TON F/B WAGON ALABAMA G65708 BLDG & AREA -EB TRAILERS 3915035 T C WB 100 406 100 TON LOWBOY BIRMINGHAM TANK 16100FLBLDG & AREA -EB TRAILERS 3915036 T C EB 200 406 30 TON LOWBOY WAGON BIRMINGHAM TANK T-52929BLDG & AREA -EB TRAILERS 3915037 T C EB 200 406 23 FT, 13 TON LOWBOY BIRMINGHAM TANK T-1148 BLDG & AREA -EB TRAILERS 3915038 T C WB 100 406 45 FT, HWY FLATBED BROWN M689450BLDG & AREA -WB TRAILERS 3915039 T C WB 100 406 2.5 TON RED BROWN 04-1568BLDG & AREA -WB TRAILERS 3915040 T C WB 100 406 45 FT, HWY FLATBED FRUEHAUF FW12002BLDG & AREA -WB TRAILERS 02260R	391502	26 X C WB	100	C								
3915039 T C WB 100 406 2.5 TON BIRMINGHAM TANK 1740 BLDG & AREA -WB TRAILERS 02454 3915030 X C WB 100 0 PASSENGER-WOOD 5 TON BIRMINGHAM TANK N/A BLDG & AREA -WB TRAILERS 1329RR 3915031 X C WB 100 0 PASSENGER-WOOD 5 TON BIRMINGHAM TANK N/A BLDG & AREA -WB TRAILERS 1329RR 3915032 T C EB 200 406 26 FT, 5 TON F/B WAGON ALABAMA G65707 BLDG & AREA -EB TRAILERS 3915033 T C EB 200 406 20 FT, 5 TON F/B WAGON ALABAMA G65708 BLDG & AREA -EB TRAILERS 3915034 T C EB 200 406 100 TON LOWBOY BIRMINGHAM TANK 16100FLBLDG & AREA -EB TRAILERS 3915035 T C WB 100 406 100 TON LOWBOY BIRMINGHAM TANK 1-1148 BLDG & AREA -EB TRAILERS 3915037 T C EB 200 406 23 FT, 13 TON LOWBOY BIRMINGHAM TANK T-1148 BLDG & AREA -EB TRAILERS 3915038 T C WB 100 406 45 FT, HWY FLATBED BROWN M689450BLDG & AREA -WB TRAILERS 3915039 T C WB 100 406 TRAILER-2 TON RED BROWN M691106BLDG & AREA -WB TRAILERS 3915040 T C WB 100 406 45 FT, HWY FLATBED BROWN 04-1568BLDG & AREA -WB TRAILERS 02260R											TRAILERS	
3915030 X C WB 100 0 PASSENGER-WOOD 5 TON BIRMINGHAM TANK N/A BLDG & AREA -WB TRAILERS 1329RR 3915031 X C WB 100 0 PASSENGER-WOOD 5 TON BIRMINGHAM TANK N/A BLDG & AREA -WB TRAILERS 1329RR 3915032 T C EB 200 406 26 FT, 5 TON F/B WAGON ALABAMA G65707 BLDG & AREA -EB TRAILERS 3915033 T C EB 200 406 20 FT, 5 TON F/B WAGON ALABAMA G65708 BLDG & AREA -EB TRAILERS 3915034 T C EB 200 406 20 FT, 5 TON F/B WAGON ALABAMA G65708 BLDG & AREA -EB TRAILERS 3915035 T C WB 100 406 100 TON LOWBOY BIRMINGHAM TANK 16100FLBLDG & AREA -WB TRAILERS 3915036 T C EB 200 406 30 TON LOWBOY WAGON BIRMINGHAM TANK T-52929BLDG & AREA -EB TRAILERS 3915037 T C EB 200 406 23 FT, 13 TON LOWBOY BIRMINGHAM TANK T-1148 BLDG & AREA -EB TRAILERS 3915038 T C WB 100 406 45 FT, HWY FLATBED BROWN M689450BLDG & AREA -WB TRAILERS 3915039 T C WB 100 406 TRAILER-2 TON RED BROWN M691106BLDG & AREA -WB TRAILERS 3915040 T C WB 100 406 2.5 TON RED BROWN 04-1568BLDG & AREA -WB TRAILERS 3915041 T C WB 100 406 45 FT, HWY FLATBED FRUEHAUF FW12002BLDG & AREA -WB TRAILERS 02260R	391502	28 X C WB	100	0	2.5 TON	BIRMINGHAM TANK	s25162	1BLDG	& AREA	-WB	TRAILERS	
3915031 X C WB 100 0 PASSENGER-WOOD 5 TON BIRMINGHAM TANK N/A BLDG & AREA -WB TRAILERS 3915032 T C EB 200 406 26 FT, 5 TON F/B WAGON ALABAMA G65707 BLDG & AREA -EB TRAILERS 3915033 T C EB 200 406 20 FT, 5 TON F/B WAGON ALABAMA G65708 BLDG & AREA -EB TRAILERS 3915034 T C EB 200 406 20 FT, 5 TON F/B WAGON ALABAMA G65708 BLDG & AREA -EB TRAILERS 3915035 T C WB 100 406 100 TON LOWBOY BIRMINGHAM TANK 16100FLBLDG & AREA -WB TRAILERS 3915036 T C EB 200 406 30 TON LOWBOY WAGON BIRMINGHAM TANK T-52929BLDG & AREA -EB TRAILERS 3915037 T C EB 200 406 23 FT, 13 TON LOWBOY BIRMINGHAM TANK T-1148 BLDG & AREA -EB TRAILERS 3915038 T C WB 100 406 45 FT, HWY FLATBED BROWN M689450BLDG & AREA -WB TRAILERS 3915039 T C WB 100 406 TRAILER-2 TON RED BROWN M691106BLDG & AREA -WB TRAILERS 3915040 T C WB 100 406 2.5 TON RED BROWN 04-1568BLDG & AREA -WB TRAILERS 3915041 T C WB 100 406 45 FT, HWY FLATBED FRUEHAUF FW12002BLDG & AREA -WB TRAILERS TRAILERS 1329R 1329C	391502	29 T C WB	100	406	3 2.5 TON	BIRMINGHAM TANK	1740	BLDG	& AREA	-WB	TRAILERS	02454
3915032 T C EB 200 406 26 FT, 5 TON F/B WAGON ALABAMA G65707 BLDG & AREA -EB TRAILERS 3915033 T C EB 200 406 20 FT, 5 TON F/B WAGON ALABAMA G65706 BLDG & AREA -EB TRAILERS 3915034 T C EB 200 406 20 FT, 5 TON F/B WAGON ALABAMA G65708 BLDG & AREA -EB TRAILERS 3915035 T C WB 100 406 100 TON LOWBOY BIRMINGHAM TANK 16100FLBLDG & AREA -WB TRAILERS 3915036 T C EB 200 406 30 TON LOWBOY WAGON BIRMINGHAM TANK T-52929BLDG & AREA -EB TRAILERS 3915037 T C EB 200 406 23 FT, 13 TON LOWBOY BIRMINGHAM TANK T-1148 BLDG & AREA -EB TRAILERS 3915038 T C WB 100 406 45 FT, HWY FLATBED BROWN M689450BLDG & AREA -WB TRAILERS 3915039 T C WB 100 406 TRAILER-2 TON RED BROWN M691106BLDG & AREA -WB TRAILERS 3915040 T C WB 100 406 2.5 TON RED BROWN 04-1568BLDG & AREA -WB TRAILERS 3915041 T C WB 100 406 45 FT, HWY FLATBED FRUEHAUF FW12002BLDG & AREA -WB TRAILERS 02260R	391503	SO X C WB	100	(PASSENGER-WOOD 5 TON	BIRMINGHAM TANK	N/A	BLDG	& AREA	-WB	TRAILERS	1329RR
3915033 T C EB 200 406 20 FT, 5 TON F/B WAGON ALABAMA G65706 BLDG & AREA -EB TRAILERS 3915034 T C EB 200 406 20 FT, 5 TON F/B WAGON ALABAMA G65708 BLDG & AREA -EB TRAILERS 3915035 T C WB 100 406 100 TON LOWBOY BIRMINGHAM TANK 16100FLBLDG & AREA -WB TRAILERS 3915036 T C EB 200 406 30 TON LOWBOY WAGON BIRMINGHAM TANK T-52929BLDG & AREA -EB TRAILERS 3915037 T C EB 200 406 23 FT, 13 TON LOWBOY BIRMINGHAM TANK T-1148 BLDG & AREA -EB TRAILERS 3915038 T C WB 100 406 45 FT, HWY FLATBED BROWN M689450BLDG & AREA -WB TRAILERS 3915039 T C WB 100 406 TRAILER-2 TON RED BROWN M691106BLDG & AREA -WB TRAILERS 3915040 T C WB 100 406 2.5 TON RED BROWN 04-1568BLDG & AREA -WB TRAILERS 3915041 T C WB 100 406 45 FT, HWY FLATBED FRUEHAUF FW12002BLDG & AREA -WB TRAILERS 02260R	391503	S1 X C WB	100	0	PASSENGER-WOOD 5 TON	BIRMINGHAM TANK	N/A	BLDG	& AREA	-WB	TRAILERS	1329RR
3915034 T C EB 200 406 20 FT, 5 TON F/B WAGON ALABAMA G65708 BLDG & AREA -EB TRAILERS 3915035 T C WB 100 406 100 TON LOWBOY BIRMINGHAM TANK 16100FLBLDG & AREA -WB TRAILERS 3915036 T C EB 200 406 30 TON LOWBOY WAGON BIRMINGHAM TANK T-52929BLDG & AREA -EB TRAILERS 3915037 T C EB 200 406 23 FT, 13 TON LOWBOY BIRMINGHAM TANK T-1148 BLDG & AREA -EB TRAILERS 3915038 T C WB 100 406 45 FT, HWY FLATBED BROWN M689450BLDG & AREA -WB TRAILERS 3915039 T C WB 100 406 TRAILER-2 TON RED BROWN M691106BLDG & AREA -WB TRAILERS 3915040 T C WB 100 406 2.5 TON RED BROWN 04-1568BLDG & AREA -WB TRAILERS 3915041 T C WB 100 406 45 FT, HWY FLATBED FRUEHAUF FW12002BLDG & AREA -WB TRAILERS	391503	S2 T C EB	200	406	26 FT, 5 TON F/B WAGON	ALABAMA	G65707	BLDG	& AREA	-EB	TRAILERS	
3915035 T C WB 100 406 100 TON LOWBOY BIRMINGHAM TANK 16100FLBLDG & AREA -WB TRAILERS 3571R 3915036 T C EB 200 406 30 TON LOWBOY WAGON BIRMINGHAM TANK T-52929BLDG & AREA -EB TRAILERS 3915037 T C EB 200 406 23 FT, 13 TON LOWBOY BIRMINGHAM TANK T-1148 BLDG & AREA -EB TRAILERS 3915038 T C WB 100 406 45 FT, HWY FLATBED BROWN M689450BLDG & AREA -WB TRAILERS 3915039 T C WB 100 406 TRAILER-2 TON RED BROWN M691106BLDG & AREA -WB TRAILERS 3915040 T C WB 100 406 2.5 TON RED BROWN 04-1568BLDG & AREA -WB TRAILERS 3915041 T C WB 100 406 45 FT, HWY FLATBED FRUEHAUF FW12002BLDG & AREA -WB TRAILERS TRAILERS 02260R	391503	3 T C EB	200	406	20 FT, 5 TON F/B WAGON	ALABAMA	G65706	BLDG	& AREA	-EB	TRAILERS	
3915036 T C EB 200 406 30 TON LOWBOY WAGON BIRMINGHAM TANK T-52929BLDG & AREA -EB TRAILERS 3915037 T C EB 200 406 23 FT, 13 TON LOWBOY BIRMINGHAM TANK T-1148 BLDG & AREA -EB TRAILERS 3915038 T C WB 100 406 45 FT, HWY FLATBED BROWN M689450BLDG & AREA -WB TRAILERS 3915039 T C WB 100 406 TRAILER-2 TON RED BROWN M691106BLDG & AREA -WB TRAILERS 3915040 T C WB 100 406 2.5 TON RED BROWN 04-1568BLDG & AREA -WB TRAILERS 3915041 T C WB 100 406 45 FT, HWY FLATBED FRUEHAUF FW12002BLDG & AREA -WB TRAILERS	391503	S4 T C EB	200	406	20 FT, 5 TON F/B WAGON	ALABAMA	G65708	BLDG	& AREA	-EB	TRAILERS	
3915037 T C EB 200 406 23 FT, 13 TON LOWBOY BIRMINGHAM TANK T-1148 BLDG & AREA -EB TRAILERS 3915038 T C WB 100 406 45 FT, HWY FLATBED BROWN M689450BLDG & AREA -WB TRAILERS 3915039 T C WB 100 406 TRAILER-2 TON RED BROWN M691106BLDG & AREA -WB TRAILERS 3915040 T C WB 100 406 2.5 TON RED BROWN 04-1568BLDG & AREA -WB TRAILERS 3915041 T C WB 100 406 45 FT, HWY FLATBED FRUEHAUF FW12002BLDG & AREA -WB TRAILERS	391503	S5 T C WB	100	406	5 100 TON LOWBOY	BIRMINGHAM TANK	16100F	LBLDG	& AREA	-WB	TRAILERS	3571R
3915038 T C WB 100 406 45 FT, HWY FLATBED BROWN M689450BLDG & AREA -WB TRAILERS 3915039 T C WB 100 406 TRAILER-2 TON RED BROWN M691106BLDG & AREA -WB TRAILERS 3915040 T C WB 100 406 2.5 TON RED BROWN 04-1568BLDG & AREA -WB TRAILERS 3915041 T C WB 100 406 45 FT, HWY FLATBED FRUEHAUF FW12002BLDG & AREA -WB TRAILERS	391503	6 T C EB	200	406	30 TON LOWBOY WAGON	BIRMINGHAM TANK	T-5292	9BLDG	& AREA	-EB	TRAILERS	
3915039 T C WB 100 406 TRAILER-2 TON RED BROWN M691106BLDG & AREA -WB TRAILERS 3915040 T C WB 100 406 2.5 TON RED BROWN 04-1568BLDG & AREA -WB TRAILERS 3915041 T C WB 100 406 45 FT, HWY FLATBED FRUEHAUF FW12002BLDG & AREA -WB TRAILERS	391503	7 T C EB	200	406	23 FT, 13 TON LOWBOY	BIRMINGHAM TANK	T-1148	BLDG	& AREA	-EB	TRAILERS	
3915040 T C WB 100 406 2.5 TON RED BROWN 04-1568BLDG & AREA -WB TRAILERS 02260R 3915041 T C WB 100 406 45 FT, HWY FLATBED FRUEHAUF FW12002BLDG & AREA -WB TRAILERS	391503	8 T C WB	100	406	45 FT, HWY FLATBED	BROWN	M68945	OBLDG	& AREA	-WB	TRAILERS	
3915041 T C WB 100 406 45 FT, HWY FLATBED FRUEHAUF FW12002BLDG & AREA -WB TRAILERS	391503	9 T C WB	100	406	TRAILER-2 TON RED	BROWN	M69110	6BLDG	& AREA	-WB	TRAILERS	
• • • • • • • • • • • • • • • • • • • •	391504	O T C WB	100	406	2.5 TON RED	BROWN	04-156	8BLDG	& AREA	-WB	TRAILERS	02260R
3915042 T C EB 200 422 45 FT, HWY FLATBED HREAT DANE 15-3094BLDG & AREA -EB TRAILERS	391504	1 T C WB	100	406	45 FT, HWY FLATBED	FRUEHAUF	FW1200	2BLDG	& AREA	-WB	TRAILERS	
	391504	2 T C EB	200	422	2 45 FT, HWY FLATBED	HREAT DANE	15-309	4BLDG	& AREA	-EB	TRAILERS	

ISET TRK E/W LOC	MANUFACTURERS SERIAL	LOCATION	CATEGORY	
MBER CEO CDE C/C EQUIP DESCRIPTION	NAME NO.		DESCRIPTION	CARN
)			•••••	•••••
3915043 T C WB 137 422 40 FT, VAN 3915044 X C WB 100 0 5 TON 3915045 T C WB 100 0 5 TON	DORSEY 63195	BOILER ERECT	TRAILERS	400000
3915044 X C WB 100 0 5 TON	BIRMINGHAM TANK 1741	BLDG & AREA -WB	TRAILERS	1988RR
3915045 T C WB 100 0 5 TON	BIRMINGHAM TANK N/A	A BLDG & AREA -WB	TRAILERS	1197RR
3915046 X C WB 100 0 2.5 TON			TRAILERS	1234RR
3915047 X C WB 100 0 2.5 TON		A BLDG & AREA -WB	TRAILERS	1235RR
3915048 T C EB 200 406 5 TON 3915049 T C WB 100 406 5 TON	ALABAMA G65504	BLDG & AREA -EB	TRAILERS	
3915049 T C WB 100 406 5 TON	BIRMINGHAM TANK N/	A BLDG & AREA -WB	TRAILERS	
3915050 T C EB 200 406 18 FT, 5 TON F/B WAGON	UTILITY TRLR WKSD2562	3 BLDG & AREA -EB	TRAILERS	
3915051 X C WB 100 0 5 TON	BIRMINGHAM TANK N/		TRAILERS	1194RR
	BIRMINGHAM TANK N/		TRAILERS	1195RR
		A BLDG & AREA -WB	TRAILERS	1196RR
3915054 T C EB 200 406 18 FT, 5 TON F/B WAGO!	UTILITY TRLR WKSH2544	4 BLDG & AREA -EB	TRAILERS	
3915055 T C EB 200 406 18 FT, 5 TON F/B WAGO	UTILITY TRLR WKSH2544	3 BLDG & AREA -EB	TRAILERS	
3915056 T C EB 200 406 18 FT, 5 TON F/B WAGO			TRAILERS	
3915057 T C EB 200 406 18 FT, 5 TON F/B WAGO			TRAILERS	
3915058 T C WB 100 406 18 FT, 5 TON F/B WAGO			TRAILERS	
3915059 X C WB 100 0 5 TON	BIRMINGHAM TANK N/	A BLDG & AREA -WB	TRAILERS	1233RR
3915060 T C WB 100 406 5 TON			TRAILERS	
3915061 T C EB 200 406 18 FT, 5 TON F/B WAGO	UTILITY TRLR WKSH2543	7 BLDG & AREA -EB	TRAILERS	
3915062 T C EB 200 406 18 FT, 5 TON F/B WAGO	UTILITY TRLR WKSH2544	7 BLDG & AREA -EB	TRAILERS	
3915063 T C WB 100 406 5 TON	BIRMINGHAM TANK N/	A BLDG & AREA -WB	TRAILERS	
3915064 X C WB 100 0 2.5 TON	BIRMINGHAM TANK N/	A BLDG & AREA -WB	TRAILERS	1236RR
3915065 T C WB 100 406 STRIPPED	BIRMINGHAM TANK 174	3 BLDG & AREA -WB	TRAILERS	
3915066 T C EB 200 406 20FT, 5 TON F/B WAGON 3915067 T C EB 200 406 5 TON 3915068 T C EB 200 406 40 FT, 5 TON F/B WAGO	ALABAMA G6569	6 BLDG & AREA -EB	TRAILERS	
3915067 T C EB 200 406 5 TON	ALABAMA G6569	4 BLDG & AREA -EB	TRAILERS	
3915068 T C EB 200 406 40 FT, 5 TON F/B WAGO	N ALABAMA G6569	5 BLDG & AREA -EB	TRAILERS	
3915069 T C EB 200 851 20 FT. 5 TON F/B WAGO	N ALABAMA G6569	8 BLDG & AREA -EB	TRAILERS	
3915070 T C EB 200 851 30 FT, 5 TON F/B WAGO			TRAILERS	
3915071 T C EB 200 851 20 FT, 5 TON F/B WAGO	N ALABAMA G6569	3 BLDG & AREA -EB	TRAILERS	
3915072 T C EB 200 851 5 TON		1 BLDG & AREA -EB	TRAILERS	IIPDR
3915073 T C EB 200 851 5 TON		'A BLDG & AREA -EB	TRAILERS	
3915074 T C WB 100 851 5 TON	UTILITY TRLR WKSH2544	O BLDG & AREA -WB	TRAILERS	
3915075 T C WB 100 851 5 TON	BIRMINGHAM TANK G6576	S2 BLDG & AREA -WB	TRAILERS	
3915076 T C EB 200 851 5 TON	ALABAMA 570	1 BLDG & AREA -EB	TRAILERS	
3915077 T C EB 200 851 20 FT, 5 TON F/B WAGO		99 BLDG & AREA -EB	TRAILERS	
3915078 T C WB 100 851 20 FT, 5 TON F/B WAGO	N ALABAMA G6570	2 BLDG & AREA -WB	TRAILERS	
3915079 T C EB 200 851 30 FT, 5 TON F/B WAGO	N ALABAMA C-750	348LDG & AREA -EB	TRAILERS	
3915080 T C WB 100 851 30 FT, 10 TON F/B WAG	ON ALABAMA C-750	035BLDG & AREA -WB	TRAILERS	
3915081 T C WB 100 851 10 TON	ALABAMA C-750	036BLDG & AREA -WB	TRAILERS	IIPDR
3915082 T C WB 100 851 30 FT, 10 TON F/B WAG	ON ALABAMA C-750	031BLDG & AREA -WB	TRAILERS	
3915083 T C WB 100 851 30 FT, 10 TON F/B WAG	ON ALABAMA C-750	032BLDG & AREA -WB	TRAILERS	
3915084 T C WB 100 851 30 FT, 10 TON F/B WAG	ON ALABAMA C-75	033BLDG & AREA -WB	TRAILERS	
3915085 T C WB 100 851 30 FT, 10 TON F/B WAG		037BLDG & AREA -WB	TRAILERS	
3915086 T C WB 100 851 30 FT, 10 TON F/B WAG		038BLDG & AREA -WB	TRAILERS	
3915087 T C WB 100 406 40 FT, 44000 #	DORSEY 6319	95 BLDG & AREA -WB	TRAILERS	
3915088 T C WB 100 406 40 FT, 28 TON VAN	DORSEY S598	28 BLDG & AREA -WB	TRAILERS	IIPD
3915089 T C EB 200 406 20 FT, 5 TON F/B WAG		00 BLDG & AREA -EB		
3915090 T C EB 200 406 18 FT, WAGON	UTILITY TRLR WKSD256	22 BLDG & AREA -EB	TRAILERS	
3915091 T C EB 200 406 20 FT, 5 TON F/B WAG	ON ALABAMA G657	03 BLDG & AREA -EB	TRAILERS	

ASSET	TRK E/W	LOC		MANUFACTURERS	SERIAL	LOCATION	CATEGORY	
NUMBER	CEO	CDE C/C	EQUIP DESCRIPTION	NAME	NO.	DESCRIPTION	DESCRIPTION	CARN
			EQUIP DESCRIPTION				• • • • • • • • • • • • • • • • • • • •	
3915092	T E EB	200 406	CAME ON VACU-ALL	BIRMINGHAM TANK	N/A	BLDG & AREA -EB	TRAILERS	01674R
3915093	T C EB	200 406	20 FT, 5 TON F/B WAGON 20 FT, 5 TON F/B WAGON	ALABAMA	G65704	BLDG & AREA -EB	TRAILERS	
3915094	T C EB	200 406	20 FT, 5 TON F/B WAGON	N/A	G65690	BLDG & AREA -EB	TRAILERS	
3915095	T C EB	200 406	20 FT, 5 TON F/B WAGON	ALABAMA	C65707	BLDG & AREA -EB	TRAILERS	
3915096	T C EB	200 406	5 5 TON	UTILITY TRLR WK	SH25441	BLDG & AREA -EB	TRAILERS	
3915097	T C WB	100 406	5 TON 1852	UTILITY TRLR WK	SD25321	BLDG & AREA -WB	TRAILERS	
3915098	T C WB	100 406	30 FEET HWY FLATBED	ALABAMA	G65689	BLDG & AREA -WB	TRAILERS	
3915099	T C WB	100 406	30 FEET HWY FLATBED	DORSEY	43104	BLDG & AREA -WB	TRAILERS	
3915100	T C WB	100 406	TRAILER TRAILER TRAILER TRAILER TRAILER TRAILER TRAILER	N/A	N/A	BLDG & AREA -WB	TRAILERS	
3915101	T C WB	100 406	TRAILER	BORWN	N/A	BLDG & AREA -WB	TRAILERS	
3915102	T C WB	100 406	TRAILER	BORWN	N/A	BLDG & AREA -WB	TRAILERS	
3915103	T C WB	100 406	TRAILER	UTILITY TRLR WK	SH25460	BLDG & AREA -WB	TRAILERS	
3915104	T C WB	100 406	TRAILER	N/A	N/A	BLDG & AREA -WB	TRAILERS	
3915105	T C WB	100 406	TRAILER	N/A	N/A	BLDG & AREA -WB	TRAILERS	
3915106	T C WB	100 406	TRAILER	N/A	N/A	BLDG & AREA -WB	TRAILERS	
3915107	T C WB	100 406	TRAILER	N/A	N/A	BLDG & AREA -WB	TRAILERS	
3915108	T C WB	100 406	TRAILER TRAILER TRAILER TRAILER TRAILER TRAILER TRAILER TRAILER	N/A	N/A	BLDG & AREA -WB	TRAILERS	
3915109	T C WB	100 406	TRAILER	N/A	N/A	BLDG & AREA -WB	TRAILERS	
3915110	T C WB	100 406	TRAILER	N/A	N/A	BLDG & AREA -WB	TRAILERS	
3915111	I C MR	100 820	SOUU GAL, HWY TANKER	ROADMASTER	118-1	BLDG & AREA -WB	TRAILERS	
3915112	T C WB	100 826	4500 G PURE WATER TANK	HEIL	904689	BLDG & AREA -WB	TRAILERS	
			4 WHEEL 8 X 10 FT,				TRAILERS	
			4 WHEEL 8 X 10 FT,				TRAILERS	
			4 WHEEL 8 X 10 FT,				TRAILERS	
3915116	T C WB	100 406	4 WHEEL 8 X 10 FT,	GULFCITY	GC-001	BLDG & AREA -WB	TRAILERS	
3915117	T C EB	200 826	HWY TANKER 7200 GAL. HWY TANKER 100 TON HYD. JACK-UP	FREUHAUF	OMC1177	2BLDG & AREA -EB	TRAILERS	
3915118	T C WB	100 826	7200 GAL. HWY TANKER	FREUHAUF	OMC2049	9BLDG & AREA -WB	TRAILERS	
3915119	T C EB	200 406	100 TON HYD. JACK-UP	CTEC CO.	76-0800	OBLDG & AREA -EB	TRAILERS	
							TRAILERS	
3915121	T C WB	100 408	40 FT, HWY FLATBED	GREAT DANE	174817	BLDG & AREA -WB	TRAILERS	
3915122	X C MB	0 (UNASSIGNED	N/A	N/A	BOTH DB/WB YARD	TRAILERS	
3915123	I C MR	100 406	20 YARD DUMP	PALMER	ST-1377	ZBLDG & AREA -WB	TRAILERS	
3915124	T C WB	100 406	40 FT, HWY FLATBED UNASSIGNED 20 YARD DUMP	PALMER	ST-1373	SBLDG & AREA -WB	TRAILERS	
3913123	I C WB	100 400	20 TARD DUMP	PALMER	51-157	IBLUG & AREA -WB	TRAILERS	
3915126 3915127	TCWB	100 400	20 TARD DUMP	PALMER	51-13/4	4BLDG & AREA -WB	TRAILERS	
			20 FT, 10 TON F/B WAGO			BLDG & AREA -WB	TRAILERS	
3915128			5 20 FT, 10 TON F/B WAGO			BLDG & AREA -WB	TRAILERS	
3915129			20 FT, 10 TON F/B WAGO			BLDG & AREA -WB	TRAILERS	
3915130			5 20 FT, 10 TON F/B WAGO			BLDG & AREA -WB	TRAILERS	
3915131			20 FT, 10 TON F/B WAGO			BLDG & AREA -WB	TRAILERS	
3915132			16 FT, 5 TON F/B WAGON			BLDG & AREA -WB	TRAILERS	
39151 3 3 39151 3 4			16 FT, 5 TON F/B WAGON			BLDG & AREA -WB	TRAILERS	
			16 FT, 5 TON F/B WAGON			BLDG & AREA -WB	TRAILERS	
3915135			16 FT, 5 TON F/B WAGON			BLDG & AREA -WB	TRAILERS	
3915136 3015137			16 FT, 5 TON F/B WAGON			BLDG & AREA -WB	TRAILERS	
3915137			BOAT TRAILER 16 FT			BLDG & AREA -EB	TRAILERS	
3915138			18 FT, BOAT TRLR			DBLDG & AREA -EB	TRAILERS	
3915139			20 FT, 10 TON F/B WAGO			BLDG & AREA -WB	TRAILERS	
3915140	i C MR	131 002	40 FT, HWY VAN	HIGHWAY	//VEZ-4	PLANT ENGR BLDG	TRAILERS	

MBER	CEO		CDE		EQUIP DESCRIPTION						CARN
015161	т с	1.10	100	404	5 TOV	HITTH TOLD UP	125444	RIDG & ADEA -UR			
0151/2	TC	WD	100	406	5 TON 8 TON TRAILER 5 TON TRAILER 5 TON TRAILER 10 TON TRAILER 10 TON 16' TRL W/OIL PURIFIER	VAMAG	044C2NC	RING & APFA -UR	TRAILERS		
015142	TC	MB.	100	406	TRAILER 5 TON	KAMAG	N/A	BLDG & AREA -WB	TRAILERS		
915144	TC	UR	100	406	TRAILER 5 TON	KAMAG	N/A	BLDG & AREA -WB	TRAILERS		
915145	T C	UR.	100	406	TRAILER 10 TON	KAMAG	N/A	BLDG & AREA -WB	TRAILERS		
915146	TC	WR.	100	406	TRAILER 10 TON	KAMAG	N/A	BLDG & AREA -WB	TRAILERS		
915147	TC	UR	125	409	16' TRI WOLL PURTETER	GENERAL	202A	COMPR STATION	TRAILERS		
915148	T C	WB	100	603	MOBILE GAS CYL TLR	REX-ARC	4-31-1	1BLDG & AREA -WB	TRAILERS		
915149	T C	WB	100	602	MOBILE GAS CYL TLR	REX-ARC	4-31-1	1BLDG & AREA -WB	TRAILERS		
					6 X 12' VAN W/P.A. EQU				TRAILERS		
915152	TE	WB	131	602	MAINT P.M. TRAILER	N/A	N/A	MAINT/FACIL BLD	TRAILERS	•	
915156	TC	WB	100	406	MAINT P.M. TRAILER 35 TON HYD. JACK-UP	CTEC CO	800705	2BLDG & AREA -WB	TRAILERS		
915157	TC	WB	100	406	35 TON HYD. JACK-UP	CTEC CO	800705	1BLDG & AREA -WB	TRAILERS		
915158	TC	WB	100	826	4200 G PURE WATER TANK	N/A	N/A	BLDG & AREA -WB	TRAILERS		
915170	T C	WB	100	602	4200 G PURE WATER TANK TRAILER TRAILER W/500 GAL TANK	N/A	N/A	BLDG & AREA -WB	TRAILERS		
915295	ТС	WB	100	602	TRAILER W/500 GAL TANK	N/A	N/A	BLDG & AREA -WB	TRAILERS		
1915296	T C	EB	211	602	40 FT, HWY FLATBED (FR	I MADDEN	1255	WALKER YD	TRAILERS		3656R
					40 FT, HWY VAM (FRIG)				TRAILERS		3656R
2015200	T 0	110	100	1.04	100 TOU UVD LACK-UD	CTEC CO	010007	TRIBC 9 AREA LIR	TRAILERS		
1915299	T C	WB	100	406	100 TON HYD. JACK-UP	CTEC CO	810803	8BLDG & AREA -WB	TRAILERS		
1915302	T C	WB	100	406	40 FT, HWY FLATBED	CLARK	1CD2L4	OBLDG & AREA -WB	TRAILERS		
1915303	T C	WB	100	406	TRAILER-40 FT FLATBED	CLARK	1CD2L4	OBLDG & AREA -WB	TRAILERS		
1915304	T C	WB	100	406	40 FT HWY FLATBED	CLARK	1CD2L4	OBLDG & AREA -WB	TRAILERS		
1915305	T C	WB	5	629	8500 GAL. HWY TANKER	TRAILMOBILE	F-4046	3RESOURCE RECVRY	TRAILERS		
1915306	T C	WB	5	629	100 TON HTD. JACK-UP 100 TON HYD. JACK-UP 40 FT, HWY FLATBED TRAILER-40 FT FLATBED 40 FT HWY FLATBED 8500 GAL. HWY TANKER 8500 GAL. HWY TANKER TRAILER- 10 TON 40 FT, HWY FLATBED	TRAILMOBILE	F-4062	5RESOURCE RECVRY	TRAILERS	•	
1915307	T C	EB	200	890	TRAILER- 10 TON	ALABAMA	C-7503	6BLDG & AREA -EB	TRAILERS		
3915308	T C	ЕB	200	890	40 FT, HWY FLATBED	LUFKIN	34356	BLDG & AREA -EB	TRAILERS		
17 13307	, ,	W D	117	400	44 fil, 20 for his f/b	nuapa	FN0-47	AIKWUOLOKIWIOU	IKAILEKS		
3915310	ΤE	WB	126	406	4500 GAL. HWY TANKER	HEIL	L18377	HOST/FIRE STA	TRAILERS		
1915311	T C	WB	114	602	8500 GAL. HWY TANKER	TRAILMOBILE	K-4040	5TRANSPORTAION	TRAILERS		
1915312	T C	WB	114	602	8500 GAL. HWY TANKER	TRAILMOBILE	K-4033	5TRANSPORTAION	TRAILERS		
1915313	T C	WB	114	406	40FT, HWY FLATBED	ALABAMA	B-7105	8TRANSPORTAION	TRAILERS		
3915314	T C	WB	114	406	40FT, HWY FLATBED	ALABAMA	A-7200	1TRANSPORTAION	TRAILERS		
1915315	T C	WB	131	602	TRAILER- FOR TRENCHER	CHARLES MACH	E10253	7PLANT ENGR BLDG			
1915316	T C	WB	104	813	SIDE DUPM WAGON	TOWSLEY	N/A	FAB SHOP	TRAILERS		
1915317	T C	WB	100	406	SIDE DUPM WAGON 20 FT, 5 TON F/B WAGON	ALABAMA	G-6570	5BLDG & AREA -WB	TRAILERS		
915318	T C	EB	276	406	40 FT, HWY VAN	TRAILMOBILE	S31A2E	A#12 WHSE	TRAILERS		
1915319	T C	EB	211	406	HYDRAULIC FIFTH WHEEL	P FONTAINE	FC250	WALKER YD	TRAILERS		
					45 FT, 43 TON HWY F/B	GREAT DANE	1GRDM9	OTRANSPORTATION	TRAILERS		
1915321	T C	WB	114	406	45 FT, 43 TON HWY F/B	GREAT DANE	1GRDM9	OTRANSPORTATION	TRAILERS		
915322	T C	WB	114	406	45 FT, 43 TON HWY F/B	GREAT DANE	1GRDM9	OTRANSPORTATION	TRAILERS		
1915323	T C	WB	114	406	45 FT, 43 TON HWY F/B	GREAT DANE	1GRDM9	OTRANSPORTATION	TRAILERS		
					100 TON HYD JACK UP		850706	6TRANSPORTATION	TRAILERS		
					8 X 22 FT, UTILITY TRA			#12 WHSE	TRAILERS		
					65 ALUM. 8500 G. TANKE		F1154D	CALUM FAB SHOP	TRAILERS		
					8750 GAL. TANK TRAILER	FRUEHAUF	OMP604	5TRANSPORTATION	TRAILERS		
1915330					200 TON TRANSPORTER	CTEC	88-08-	7BLDG & AREA -WB	TRAILERS		
1916001					30 TON	CLARK	12-812	OBLDG & AREA -WB	STRADDLE	CARRIER	2892R
1916002	T C	WB	100	406	50 TON	CLARK	8249	BLDG & AREA -WB	STRADDLE	CARRIER	2778R

TRK E/W LOC

SET

LOCATION

NUMBER CEO CEC CEUIP DESCRIPTION NAME N. DESCRIPTION DESCRIPTION CARN	ASSET	TRK E/V	1 LOC			MANUFACTURERS	SERIAL	LOCATION	CATEGORY	
3916003 T C WB 114 406 30 TON V-504C CUMMINS 3916004 T C WB 110 406 30 TON V-504C CUMMINS 3916004 T C WB 100 602 SPECIAL SHOP LUBICATION N/A DEPT 18BLD & AREA - WB RIDGE CRARES 391000 T C WB 100 602 SPECIAL SHOP LUBICATION N/A DEPT 18BLD & AREA - WB RIDGE CRANES 3301001 T C WB 106 855 100 TON HOOK WEIZLAFF Z312 PANEL SHOP BRIDGE CRANES 3301001 T C WB 106 855 100 TON HOOK WEIZLAFF Z312 PANEL SHOP BRIDGE CRANES 3301003 T C WB 121 134 BRIDGE CRANE Z TON 11MUSTRAL CRANE Z 710 F P & H 11768 #Z PLATEN BRIDGE CRANES 1301003 T C WB 280 838 25 TON 11MUSTRAL CRANE Z 727 #F PLATEN BRIDGE CRANES 11FPOR 3301005 T E EB 280 838 15 TON P & H 11048 #7 PLATEN BRIDGE CRANES 11FPOR 3301005 T C EB 225 846 16 TON MAGNETIC VIA HOVA MG-001 FAB SHOP BRIDGE CRANES 11FPOR 3301000 T C EB 255 846 16 TON MAGNETIC VIA HOVA MG-001 FAB SHOP BRIDGE CRANES 11FPOR 33010107 T E EB 255 813 15 TON SAMA BOX MB-127 #F PLATEN BRIDGE CRANES 11FPOR 3301010 T C EB 255 813 15 TON SAMA BOX MB-127 #F PLATEN BRIDGE CRANES 11FPOR 3301010 T C EB 255 813 15 TON SAMA BOX MB-127 #F PLATEN BRIDGE CRANES 11FPOR 3301010 T C EB 255 813 15 TON SAMA BOX MB-127 #F PLATEN BRIDGE CRANES 11FPOR 3301015 T C EB 255 813 10 TON SAMA BOX MB-127 #F PLATEN BRIDGE CRANES 11FPOR 3301015 T C EB 255 813 10 TON SAMA BOX MB-127 #F PLATEN BRIDGE CRANES 11FPOR 3301015 T C WB 100 602 BRIDGE CRANE I TON SAMA BOX MB-127 #F PLATEN BRIDGE CRANES 11FPOR 3301015 T C WB 100 602 BRIDGE CRANE I TON SAMA BOX MB-127 #F PLATEN BRIDGE CRANES 11FPOR 3301015 T C WB 100 602 BRIDGE CRANE I TON SAMA BOX MB-127 #F PLATEN BRIDGE CRANES 11FPOR 3301015 T C WB 100 602 BRIDGE CRANE I TON SAMA BOX MB-127 #F PLATEN BRIDGE CRANES 11FPOR 3301015 T C WB 100 602 BRIDGE CRANE I TON SAMA BOX MB-127 #F PLATEN BRIDGE CRANES 11FPOR 3301015 T C WB 100 602 BRIDGE CRANE I TON SAMA BOX MB-127 #F PLATEN BRIDGE CRANES 11FPOR BRIDGE CRANE I TON SAMA BOX MB-127 #F PLATEN BRIDGE CRANES 11FPOR BRIDGE CRANE I TON SAMA BOX MB-127 #F BRIDGE CRANES 11FPOR BRIDGE CRANE I TON SAMA BOX MB-127 #F BRIDGE CRANES 11FPOR BRIDGE CRANE I TON SAMA					EQUIP DESCRIPTION	NAME	NO.	DESCRIPTION	DESCRIPTION	CARN
3310100 T C WE 100 602 SPECIAL SHOP LUBICATION										
3301000 T C US 106 602 SPECIAL SHOP LUBICATION	3916003	T C WB	114	406	30 TON V-504C CUMMINS	HYSTER	A14P-18	STRANSPORTATION	STRADDLE CARRIERS	5
301000 T C WB 106 836 100 TON MOOK 301000 T C WB 107 877 50 TON REVOLVE 301000 T C WB 107 877 50 TON REVOLVE 301000 T C WB 211 134 BRIDGE CRANES 301000 T C WB 211 134 BRIDGE CRANE 2 TON 416/PHIDETE KINGMO 268/MALER TD 301000 T C WB 211 134 BRIDGE CRANES 301000 T C WB 211 134 BRIDGE CRANES 301000 T C WB 211 134 BRIDGE CRANES 301000 T C WB 228 838 257 TON 301000 T C WB 228 838 157 TON 30100 T C WB 228 838 830 TON 30100 T C WB 100 602 BRIDGE CRANE 31 TON 30100 T C WB 100 602 BRIDGE CRANE 1 TON 30100 T C WB 100 602 BRIDGE CRANE 1 TON 30100 T C WB 100 602 BRIDGE CRANE 1 TON 30100 T C WB 100 602 BRIDGE CRANE 1 TON 30100 T C WB 100 602 BRIDGE CRANE 1 TON 30100 T C WB 100 602 BRIDGE CRANE 1 TON 30100 T C WB 100 602 BRIDGE CRANE 1 TON 30100 T C WB 100 602 BRIDGE CRANE 1 TON 30100 T C WB 100 602 BRIDGE CRANE 1 TON 30100 T C WB 100 602 BRIDGE CRANE 1 TON 30100 T C WB 100 602 BRIDGE CRANE 1 TON 30100 T C WB 100 602 BRIDGE CRANE 1 TON 30100 T C WB 100 602 BRIDGE CRANE 1 TON 30100 T C WB 100 602 BRIDGE CRANE 1 TON 30100 T C WB 100 602 BRIDGE CRANE 1 TON 30100 T C WB 100 602 BRIDGE CRANE 1 TON 30100 T C WB 100 602 BRIDGE CRANE 1 T	3916004	T C WB	114	406	30 TON V-504C CUMMINS	HYSTER	D14P-18	STRANSPORTATION	STRADDLE CARRIERS	3
3301002 T C WB	3301000	T C WB	100	602	SPECIAL SHOP LUBICATION	N/A	DEPT 18	BBLDG & AREA -WB	BRIDGE CRANES	
3301005 C EB 211 134 SRIDEE CRANE 2 TON YALE/HIDGET KINSMOOD 269ALKER TO BRIDGE CRANES O2130R 3301005 T E EB 280 838 25 TON P & H 1768 #2 PLATEN BRIDGE CRANES 11PPR 3301005 T E EB 280 838 2575 TON P & H 1768 #2 PLATEN BRIDGE CRANES 11PPR 3301005 T E EB 282 838 2575 TON INDUSTRIAL CRANE 273 #7 PLATEN BRIDGE CRANES 11PPR 3301007 T E EB 282 838 155 TON INDUSTRIAL CRANE 273 #7 PLATEN BRIDGE CRANES 11PPR 33010107 C EB 255 406 16 TON MAGNETIC VIA NOVA NO-001 FAB SNOP BRIDGE CRANES 11PPR 3301011 T C EB 255 813 15 TON CHISOLIM PROVE COL-1633 FAB SNOP BRIDGE CRANES 11PPR 3301012 C EB 255 813 10 TON CHISOLIM PROVE COL-1633 FAB SNOP BRIDGE CRANES 11PPR 3301012 C EB 255 813 10 TON CHISOLIM PROVE COL-1633 FAB SNOP BRIDGE CRANES 11PPR 3301013 T E EB 233 838 BRIDGE CRANE STIPPR S301015 T E EB 233 838 BRIDGE CRANE STIPPR S301015 T E EB 233 838 BRIDGE CRANE STIPPR S301015 T E EB 233 838 BRIDGE CRANE STIPPR S301015 T E EB 233 838 BRIDGE CRANE STIPPR S301015 T E EB 233 838 BRIDGE CRANE STIPPR S301015 T E EB 233 838 BRIDGE CRANE STIPPR S301015 T E EB 233 838 BRIDGE CRANE STIPPR S301015 T E EB 233 838 BRIDGE CRANE STIPPR S301015 T E EB 233 838 BRIDGE CRANE STIPPR S301015 T E EB 233 838 BRIDGE CRANE TON TALE/FUNDET EL-38 BLIDG & AREA - WB BRIDGE CRANES ITPPR S301015 T C WB 100 602 BRIDGE CRANE T ON TALE/FUNDET EL-38 BLIDG & AREA - WB BRIDGE CRANES ITPPR S301015 T C WB 100 602 BRIDGE CRANE T ON TALE/FUNDET EL-38 BLIDG & AREA - WB BRIDGE CRANES S301025 T C WB 100 602 BRIDGE CRANE T ON TALE/FUNDET EL-35 BLIDG & AREA - WB BRIDGE CRANES S301025 T C WB 100 602 BRIDGE CRANE T ON TALE/FUNDET EL-35 BLIDG & AREA - WB BRIDGE CRANES S301025 T C WB 100 602 BRIDGE CRANE T ON TALE/FUNDET EL-35 BLIDG & AREA - WB BRIDGE CRANES S301025 T C WB 100 602 BRIDGE CRANE T ON TALE/									BRIDGE CRANES	
3301004 T C EB 280 838 25 TON	3301002	T C WB	107	817	50 TON REVOLVE	SHEPARD NILES	6745-88	SHOT BLAST	BRIDGE CRANES	
3301005 T E EB 280 838 15 TON	3301003	T C EB	211	134	BRIDGE CRANE 2 TON	YALE/MIDGET KIN	382. DOME	SWALKER YD	BRIDGE CRANES	
3301007 T E EB 282 838 15/5 TON	3301004	T C EB	280	838	25 TON	INDUSTRAL CRANE	307	#2 PLATEN	BRIDGE CRANES	02130R
3301007 T E EB 282 838 15/5 TON	3301005	T E EB	280	838	15 TON					IIPDR
3301008 T C EB 235 A06 16 TON MAGNETIC									BRIDGE CRANES	IIPDR
3301009 T E EB 283 838 15 TON	3301007	T E EB	282	838	15/5 TON	INDUSTRIAL CRAN	273	#7 PLATEN	BRIDGE CRANES	02130R
3301010 T C EB 235 813 15 TON SIAW BOX BR-20 FAB SHOP BRIDGE CRANES 11PDR 3301011 T E EB 235 813 5 TON (ELECT. HAND) CHISCH MOORE COC-1635 FAB SHOP BRIDGE CRANES 11PDR 3301012 T C EB 235 813 10 TON CORC CRANE 8R23 FAB SHOP BRIDGE CRANES 11PDR 3301013 T E EB 235 813 10 TON CORC CRANE 8R23 FAB SHOP BRIDGE CRANES 11PDR 3301015 T E EB 235 813 BRIDGE CRANE 5 11PDR 3301015 T E EB 235 813 SPICHE CRANE 55T N/TAG SHEPARE NILES BR34 #P PLATEN BRIDGE CRANES 11PDR 3301015 T C EB 283 838 BRIDGE CRANE 55T N/TAG SHEPARE NILES BR34 #P PLATEN BRIDGE CRANES 11PDR 3301016 T C EB 283 838 RIDGE CRANE 1 TON SHAPARE NILES BR34 #P PLATEN BRIDGE CRANES 11PDR 3301016 T C W 100 602 T TON (ELECT. HAND) YALE/BUDGET EL-38 BLDG & AREA - WB BRIDGE CRANES 11PDR 3301018 T C WB 100 602 BRIDGE CRANE 1 TON YALE/BUDGET EL-37 BLDG & AREA - WB BRIDGE CRANES 1301020 T C WB 100 602 T TON (ELECT. HAND) YALE/BUDGET EL-37 BLDG & AREA - WB BRIDGE CRANES 3301022 T C WB 100 602 BRIDGE CRANE 1 TON YALE/BUDGET EL-37 BLDG & AREA - WB BRIDGE CRANES 3301022 T C WB 100 602 BRIDGE CRANE 1 TON YALE/BUDGET EL-35 BLDG & AREA - WB BRIDGE CRANES 3301022 T C WB 100 602 BRIDGE CRANE 1 TON YALE/BUDGET EL-35 BLDG & AREA - WB BRIDGE CRANES 3301022 T C WB 100 602 BRIDGE CRANE 1 TON YALE/BUDGET EL-35 BLDG & AREA - WB BRIDGE CRANES 3301023 T C WB 100 602 BRIDGE CRANE 1 TON YALE/BUDGET EL-35 BLDG & AREA - WB BRIDGE CRANES 3301025 T C EB 240 831 1 TON / TON YALE/BUDGET N/A PIPE SHOP BRIDGE CRANES 2921R 3301025 T C WB 100 602 BRIDGE CRANE 2 TON YALE/BUDGET N/A PIPE SHOP BRIDGE CRANES 2921R 3301025 T C WB 192 825 7.5 TON CHECO 056002 BLDG & AREA - WB BRIDGE CRANES 2921R 3301023 T C WB 192 825 7.5 TON CHECO 056002 BLDG & AREA - WB BRIDGE CRANES 2921R 3301023 T C WB 192 825 7.5 TON CHECO 056002 BLDG & AREA - WB BRIDGE CRANES 2925R 3301033 T C WB 192 825 7.5 TON CHECO 056002 BLDG & AREA - WB BRIDGE CRANES 3301033 T C WB 192 825 7.5 TON CHECO 056002 BLDG & AREA - WB BRIDGE CRANES 3301033 T C WB 192 825 7.5 TON CHECO 056003 BLDG & AREA - WB BRIDGE CRANES 3301033 T C WB 192 825 7.5 TON C	3301008	T C EB	235	406	16 TON MAGNETIC	AVON AIV	MG-001	FAB SHOP	BRIDGE CRANES	IIPDR
3301011 T E EB 235 813 10 TON (ELECT. HAND) CHISOLM MOORE COC-1633 FAB SHOP 3301012 T C EB 235 813 10 TON MILWAUKEE BR22 FAB SHOP 3301013 T E EB 235 813 10 TON CORCO CRANE BR23 FAB SHOP 3301014 T C EB 238 838 35/10 CRANE 3301015 T E EB 238 838 BSIDGE CRANE 35T N/TAG 3301015 T E EB 238 838 BRIDGE CRANE 35T N/TAG 3301016 T C EB 238 838 BRIDGE CRANE 35T N/TAG 3301016 T C WB 100 602 1 TON (ELECT. HAND) 3301018 T C WB 100 602 BRIDGE CRANE 1 TON 3301019 T C WB 100 602 BRIDGE CRANE 1 TON 3301021 T C WB 100 602 BRIDGE CRANE 1 TON 3301021 T C WB 100 602 BRIDGE CRANE 1 TON 3301022 T C WB 100 602 BRIDGE CRANE 1 TON 3301024 T C WB 100 602 BRIDGE CRANE 1 TON 3301025 T E BB 240 831 1 TON / 10 TON CHAIN 3301025 T E BB 240 831 1 TON / 10 TON CHAIN 3301027 T E BB 240 831 1 TON / 10 TON CHAIN 3301027 T E BB 240 831 1 TON / TON 3301028 T C WB 100 602 BRIDGE CRANE 1 TON 3301027 T C WB 100 602 BRIDGE CRANE 1 TON 400 602 BRIDGE CRANE 1 TON 4	3301009	T E EB	283	838	15 TON	NORTHERN	010	#9 PLATEN	BRIDGE CRANES	IIPDR
3301012 T C EB 225 813 10 TON MILWAUKEE BR22 FAB SHOP BRIDGE CRANES 11PDR 3301013 T E EB 225 813 10 TON CONCO CRANE STAP SHOP BRIDGE CRANES 11PDR 3301015 T E EB 223 838 35/10 CRANE SHEPARE NILES BR33 #9 PLATEN BRIDGE CRANES 11PDR 3301016 T C EB 283 838 BRIDGE CRANE 35T N/TAG SHEPARE NILES BR34 #9 PLATEN BRIDGE CRANES 11PDR 3301016 T C UB 283 838 BRIDGE CRANE 35T N/TAG SHEPARE NILES BR34 #9 PLATEN BRIDGE CRANES 11PDR 3301016 T C UB 100 602 1 TON (ELECT. HAND) YALE/BUDGET EL-38 BLDG & AREA - WB BRIDGE CRANES 11PDR 3301019 T C WB 100 602 BRIDGE CRANE 1 TON YALE/BUDGET EL-39 BLDG & AREA - WB BRIDGE CRANES 11PDR 3301021 T C WB 100 602 BRIDGE CRANE 1 TON YALE/BUDGET EL-37 BLDG & AREA - WB BRIDGE CRANES 1301023 T C WB 100 602 BRIDGE CRANE 1 TON YALE/BUDGET EL-35 BLDG & AREA - WB BRIDGE CRANES 1301023 T C WB 100 602 BRIDGE CRANE 1 TON YALE/BUDGET EL-35 BLDG & AREA - WB BRIDGE CRANES 1301025 T E EB 240 831 1 TON / 10 TON CHAIN YALE/BUDGET EL-35 BLDG & AREA - WB BRIDGE CRANES 1301025 T E EB 240 831 1 TON / 10 TON CHAIN YALE/BUDGET WALE/BUDGET W	3301010	T C EB	235	813	15 TON				BRIDGE CRANES	IIPDR
3301012 T C EB 225 813 10 TON MILWAUKEE BR22 FAB SHOP BRIDGE CRANES 11PDR 3301013 T E EB 225 813 10 TON CONCO CRANE STAP SHOP BRIDGE CRANES 11PDR 3301015 T E EB 223 838 35/10 CRANE SHEPARE NILES BR33 #9 PLATEN BRIDGE CRANES 11PDR 3301016 T C EB 283 838 BRIDGE CRANE 35T N/TAG SHEPARE NILES BR34 #9 PLATEN BRIDGE CRANES 11PDR 3301016 T C UB 283 838 BRIDGE CRANE 35T N/TAG SHEPARE NILES BR34 #9 PLATEN BRIDGE CRANES 11PDR 3301016 T C UB 100 602 1 TON (ELECT. HAND) YALE/BUDGET EL-38 BLDG & AREA - WB BRIDGE CRANES 11PDR 3301019 T C WB 100 602 BRIDGE CRANE 1 TON YALE/BUDGET EL-39 BLDG & AREA - WB BRIDGE CRANES 11PDR 3301021 T C WB 100 602 BRIDGE CRANE 1 TON YALE/BUDGET EL-37 BLDG & AREA - WB BRIDGE CRANES 1301023 T C WB 100 602 BRIDGE CRANE 1 TON YALE/BUDGET EL-35 BLDG & AREA - WB BRIDGE CRANES 1301023 T C WB 100 602 BRIDGE CRANE 1 TON YALE/BUDGET EL-35 BLDG & AREA - WB BRIDGE CRANES 1301025 T E EB 240 831 1 TON / 10 TON CHAIN YALE/BUDGET EL-35 BLDG & AREA - WB BRIDGE CRANES 1301025 T E EB 240 831 1 TON / 10 TON CHAIN YALE/BUDGET WALE/BUDGET W	3301011	T E EB	235	813	5 TON (ELECT. HAND)	CHISOLM MOORE C	oc-1633	FAB SHOP	BRIDGE CRANES	IIPDR
3301014 T E EB 283 838 35/10 CRANE SHEPARE NILES BR33 #9 PLATEN BRIDGE CRANES 11PDR 3301015 T E EB 283 838 BRIDGE CRANE 351 N/TAG SHEPARE NILES BR34 #9 PLATEN BRIDGE CRANES 11PDR 3301016 T C EB 283 838 100/10 TO W SAMA BOX 202 #9 PLATEN BRIDGE CRANES 11PDR 3301016 T C WB 100 602 1 TON (ELECT. HAND) YALE/BUDGET EL-38 BLDG & AREA - WB BRIDGE CRANES 3301018 T C WB 100 602 BRIDGE CRANE 1 TON CHN YALE/BUDGET EL-37 BLDG & AREA - WB BRIDGE CRANES 3301020 T C WB 100 602 1 TON (ELECT. HAND) YALE/BUDGET EL-37 BLDG & AREA - WB BRIDGE CRANES 3301022 T C WB 100 602 1 TON (ELECT. HAND) YALE/BUDGET EL-37 BLDG & AREA - WB BRIDGE CRANES 3301022 T C WB 100 602 BRIDGE CRANE 1 TON CHN YALE/BUDGET EL-36 BLDG & AREA - WB BRIDGE CRANES 3301022 T C WB 100 602 BRIDGE CRANE 1 TON YALE/BUDGET EL-36 BLDG & AREA - WB BRIDGE CRANES 3301022 T C WB 100 602 BRIDGE CRANE 1 TON YALE/BUDGET EL-36 BLDG & AREA - WB BRIDGE CRANES 3301022 T C WB 100 602 BRIDGE CRANE 1 TON YALE/BUDGET EL-36 BLDG & AREA - WB BRIDGE CRANES 3301022 T C WB 100 602 BRIDGE CRANE 1 TON YALE/BUDGET EL-36 BLDG & AREA - WB BRIDGE CRANES 3301025 T C WB 100 602 BRIDGE CRANE 1 TON YALE/BUDGET N/A PIPE SHOP BRIDGE CRANES 3301025 T C EB 240 831 1 TON / TON CHAIN YALE/BUDGET N/A PIPE SHOP BRIDGE CRANES 2921R 3301025 T C WB 100 602 BRIDGE CRANE 2 TON YALE/BUDGET N/A PIPE SHOP BRIDGE CRANES 2921R 3301028 T C WB 100 602 BRIDGE CRANE 2 TON CHECO 056002 BLDG & AREA - WB BRIDGE CRANES 2925R 3301037 T C WB 100 602 BRIDGE CRANE 2 TON CHECO 056005 SHEEMTL-COMB SHOP BRIDGE CRANES 3301037 T C WB 100 602 BRIDGE CRANE 2 TON CHECO 056005 BRIDGE WRAPH - WB BRIDGE CRANES 3301037 T C WB 100 602 BRIDGE CRANE / HD 100 6						MILWAUKEE	BR22	FAB SHOP	BRIDGE CRANES	IIPDR
STATE STAT									BRIDGE CRANES	IIPDR
3301016 T C EB 283 838 100/10 TON SHAM BOX O20 #9 PLATEN BRIDGE CRANES I1PDR 3301017 T C WB 100 602 BRIDGE CRANE TON YALE/BUDGET EL-38 BLDG & AREA - WB BRIDGE CRANES 3301019 T C WB 100 602 BRIDGE CRANE TON YALE/BUDGET 34 BLDG & AREA - WB BRIDGE CRANES 3301020 T C WB 100 602 TON (ELECT HAND) YALE/BUDGET SHDG & AREA - WB BRIDGE CRANES SHDGE								#9 PLATEN	BRIDGE CRANES	IIPDR
STATE STAT	3301015	T E EB	283	838	BRIDGE CRANE 35T N/TAG				BRIDGE CRANES	IIPDR
3301018 T C WB 100 602 BRIDGE CRANE 1 TON YALE/BUDGET EL-39 BLDG & AREA - WB BRIDGE CRANES 3301019 T C WB 100 602 BRIDGE CRANES 1 TON CHN YALE/BUDGET EL-37 BLDG & AREA - WB BRIDGE CRANES 3301020 T C WB 100 602 1 TON (ELECT. HAND) YALE/BUDGET EL-37 BLDG & AREA - WB BRIDGE CRANES 3301021 T C WB 100 602 BRIDGE CRANE 1 TON YALE/BUDGET EL-36 BLDG & AREA - WB BRIDGE CRANES 3301023 T C WB 100 602 BRIDGE CRANE 1 TON YALE/BUDGET EL-36 BLDG & AREA - WB BRIDGE CRANES 3301024 T C WB 100 602 BRIDGE CRANE 1 TON N/TA YALE/BUDGET EL-35 BLDG & AREA - WB BRIDGE CRANES 3301024 T C WB 100 602 BRIDGE CRANE 1 TON N/TA YALE/BUDGET EL-35 BLDG & AREA - WB BRIDGE CRANES 3301025 T E EB 240 831 1 TON / 10 TON CHAIN YALE/BUDGET EL-35 BLDG & AREA - WB BRIDGE CRANES 3301026 T C EB 240 831 1 TON / TON YALE/BUDGET N/A PIPE SHOP BRIDGE CRANES 2922R 3301027 T E EB 240 831 1 TON CHAIN YALE/BUDGET N/A PIPE SHOP BRIDGE CRANES 2921R 3301027 T E EB 240 831 2/10 TON CHAIN YALE/BUDGET N/A PIPE SHOP BRIDGE CRANES 2921R 3301030 T C WB 192 825 7.5 TON CHECO 056005 SHEEMTL-COMB SH BRIDGE CRANES 2925R 3301031 T C WB 100 602 BRIDGE CRANE 2 TON CHECO 056005 SHEEMTL-COMB SH BRIDGE CRANES 2925R 3301033 T C WB 100 602 BRIDGE CRANE 2 TON CHECO 056002 BLDG & AREA - WB BRIDGE CRANES 3301035 T C WB 100 602 BRIDGE CRANE 2 TON CHECO 056003 BLDG & AREA - WB BRIDGE CRANES 3301035 T C WB 100 602 2 TON CHECO 056003 BLDG & AREA - WB BRIDGE CRANES 3301035 T C WB 100 602 2 TON CHECO 056003 BLDG & AREA - WB BRIDGE CRANES 3301035 T C WB 130 851 5 TON CHECO 056001 BLDG & AREA - WB BRIDGE CRANES 3301035 T C WB 130 851 5 TON CHECO 056001 BLDG & AREA - WB BRIDGE CRANES 3301035 T C WB 130 851 5 TON CHECO 056001 BLDG & AREA - WB BRIDGE CRANES 3301035 T C WB 130 851 5 TON CHECO 056001 BLDG & AREA - WB BRIDGE CRANES 3301035 T C WB 130 851 5 TON CHECO 056001 BLDG & AREA - WB BRIDGE CRANES 3301035 T C WB 130 851 5 TON CHECO 056001 BLDG & AREA - WB BRIDGE CRANES 3301035 T C WB 130 851 5 TON CHECO 056001 BLDG & AREA - WB BRIDGE CRANES 3301035 T C WB 130 851 5 TON CHECO 056001 BLDG & AREA										IIPDR
3301019 T C WB										
3301020 T C WB 100 602 1 TON (ELECT HAND) 3301021 T C WB 100 602 1 TON (ELECT. HAND) 3301021 T C WB 100 602 BRIDGE CRANE 1 TON YALE/BUDGET EL-36 BLDG & AREA -WB BRIDGE CRANES 3301023 T C WB 100 602 BRIDGE CRANE 1 TON YALE/BUDGET EL-33 BLDG & AREA -WB BRIDGE CRANES 3301024 T C WB 100 602 BRIDGE CRANE 1 TON YALE/BUDGET EL-33 BLDG & AREA -WB BRIDGE CRANES 3301025 T E EB 240 831 1 TON / TON N/TA YALE/BUDGET EL-35 BLDG & AREA -WB BRIDGE CRANES 3301026 T C WB 100 602 BRIDGE CRANE 1 TON N/TA YALE/BUDGET EL-35 BLDG & AREA -WB BRIDGE CRANES 3301026 T C EB 240 831 1 TON / TON CHAIN YALE/BUDGET N/A PIPE SHOP WRIDGE CRANES 3301027 T E EB 240 831 1 TON / TON YALE/BUDGET N/A PIPE SHOP BRIDGE CRANES 2922R 3301028 T C WB 240 831 2/10 TON CHAIN YALE/BUDGET N/A PIPE SHOP BRIDGE CRANES 2922R 3301028 T C WB 192 825 7.5 TON LOAD LIFTER E4-23 #10 WHSE BRIDGE CRANES 2925R 3301031 T C WB 100 602 BRIDGE CRANE 2 TON CHECO 056002 BLDG & AREA -WB BRIDGE CRANES 2925R 3301031 T C WB 100 602 BRIDGE CRANE 2 TON CHECO 056002 BLDG & AREA -WB BRIDGE CRANES 3301033 T C WB 191 831 7.5 TON CHECO 056003 BLDG & AREA -WB BRIDGE CRANES 3301035 T C WB 190 822 5 TON CHECO 056003 BLDG & AREA -WB BRIDGE CRANES 3301036 T C WB 130 851 5 TON CHECO 056001/MACH-COMB SHOP BRIDGE CRANES 3301037 T C WB 137 827 6 TON CRANE / HOIST AMERICAN/P&H 640N/A /T-BOILER ERECT BRIDGE CRANES 3301037 T C WB 137 827 6 TON CRANE / HOIST AMERICAN/P&H 640N/A /T-BOILER ERECT BRIDGE CRANES 3301037 T C WB 137 827 6 TON CRANE / HOIST AMERICAN/P&H 640N/A /T-BOILER ERECT BRIDGE CRANES 3301041 T C EB 281 811 15 TON SHAW BOX BRIDGE CRANES BRIDGE CRAN	3301018	T C WB	100	602	BRIDGE CRANE 1 TON	YALE/BUDGET	EL-39	BLDG & AREA -WB	BRIDGE CRANES	
3301021 T C WB	3301019	T C WB	100	602	BRIDGE CRANE 1 TON CHN			= = :		
3301022 T C WB 100 602 BRIDGE CRANE 1 TON YALE/BUDGET EL-33 BLDG & AREA -WB BRIDGE CRANES 3301024 T C WB 100 602 BRIDGE CRANE 1 TON N/TA YALE/BUDGET EL-34 BLDG & AREA -WB BRIDGE CRANES 3301025 T E EB 240 831 1 TON / 10 TON CHAIN YALE/BUDGET N/A PIPE SHOP BRIDGE CRANES 2922R 3301027 T E EB 240 831 1 TON / TON YALE/BUDGET N/A PIPE SHOP BRIDGE CRANES 2921R 3301028 T C EB 240 831 1 TON CHAIN YALE/BUDGET N/A PIPE SHOP BRIDGE CRANES 2921R 3301027 T E EB 273 203 5 TON YALE/BUDGET N/A PIPE SHOP BRIDGE CRANES 2921R 3301029 T E EB 273 203 5 TON LOAD LIFTER E4-23 #10 WHSE BRIDGE CRANES 2925R 3301030 T C WB 192 825 7.5 TON CHECO 056002 BLDG & AREA -WB BRIDGE CRANES 2925R 3301031 T C WB 100 602 BRIDGE CRANE 2 TON CHECO 056002 BLDG & AREA -WB BRIDGE CRANES 3301031 T C WB 100 602 BRIDGE CRANE 2 TON CHECO 056002 BLDG & AREA -WB BRIDGE CRANES 3301033 T C WB 191 831 7.5 TON CHECO 056002 BLDG & AREA -WB BRIDGE CRANES 3301035 T C WB 190 822 5 TON CHECO 056003 BLDG & AREA -WB BRIDGE CRANES 3301035 T C WB 190 822 5 TON CHECO 056003 BLDG & AREA -WB BRIDGE CRANES 3301035 T C WB 190 822 5 TON CHECO 056003 BLDG & AREA -WB BRIDGE CRANES 3301035 T C WB 130 851 15/5 TON CHECO 056003 BLDG & AREA -WB BRIDGE CRANES 3301036 T C WB 130 851 15/5 TON READING C-8193-ALUM FAB SHOP BRIDGE CRANES 3301036 T C WB 130 851 15/5 TON READING C-8193-ALUM FAB SHOP BRIDGE CRANES 3301037 T C WB 130 851 5 TON READING C-8193-ALUM FAB SHOP BRIDGE CRANES 3301037 T C WB 130 851 5 TON READING C-8193-ALUM FAB SHOP BRIDGE CRANES 3301037 T C WB 130 851 5 TON READING C-8193-ALUM FAB SHOP BRIDGE CRANES 3301037 T C WB 130 851 5 TON READING C-8193-ALUM FAB SHOP BRIDGE CRANES 3301037 T C WB 130 851 5 TON READING C-8193-ALUM FAB SHOP BRIDGE CRANES 3301037 T C WB 130 851 5 TON READING C-8193-ALUM FAB SHOP BRIDGE CRANES 3301037 T C WB 130 851 5 TON READING C-8193-ALUM FAB SHOP BRIDGE CRANES 3301037 T C WB 130 851 5 TON READING C-8193-ALUM FAB SHOP BRIDGE CRANES 3301037 T C WB 130 851 5 TON READING C-8193-ALUM FAB SHOP BRIDGE CRANES 3301037 T C WB 130 851 5 TON READING C-8193-A	3301020	T C WB	100	602	1 TON (ELECT HAND)					
3301023 T C WB 100 602 BRIDGE CRANE 1 TON YALE/BUDGET EL-34 BLDG & AREA -WB BRIDGE CRANES 3301024 T C WB 100 602 BRIDGE CRANE 1 TON N/TA YALE/BUDGET N/A PIPE SHOP BRIDGE CRANES 3301025 T E EB 240 831 1 TON / 10 TON CHAIN YALE/BUDGET N/A PIPE SHOP BRIDGE CRANES 2922R 3301027 T E EB 240 831 1 TON CHAIN YALE/BUDGET N/A PIPE SHOP BRIDGE CRANES 2921R 3301027 T E EB 240 831 10 TON / TON YALE/BUDGET N/A PIPE SHOP BRIDGE CRANES 2921R 3301027 T E EB 273 203 5 TON LOAD LIFTER E4-23 #10 WHSE BRIDGE CRANES 2925R 3301030 T C WB 192 825 7.5 TON LOAD LIFTER E4-23 #10 WHSE BRIDGE CRANES 2925R 3301031 T C WB 100 602 BRIDGE CRANE 2 TON CHECO 056002 BLDG & AREA -WB BRIDGE CRANES 3301031 T C WB 100 602 BRIDGE CRANE 2 TON CHECO 056002 BLDG & AREA -WB BRIDGE CRANES 3301033 T C WB 100 602 ETON CHECO 056003 BLDG & AREA -WB BRIDGE CRANES 3301034 T C WB 100 602 ETON CHECO 056006 BLDG & AREA -WB BRIDGE CRANES 3301035 T C WB 100 602 ETON CHECO 056006 BLDG & AREA -WB BRIDGE CRANES 3301035 T C WB 100 602 ETON CHECO 056006 BLDG & AREA -WB BRIDGE CRANES 3301035 T C WB 100 602 ETON CHECO 056006 BLDG & AREA -WB BRIDGE CRANES 3301035 T C WB 130 851 15/5 TON CHECO 056001/MACH-COMB SHOP BRIDGE CRANES 3301036 T C WB 130 851 15/5 TON READING C-8193-ALUM FAB SHOP BRIDGE CRANES 3301036 T C WB 137 827 6 TON CRANE / HOIST AMERICAN/P&H 640N/A /T-BOILER ERECT BRIDGE CRANES 3301040 T C EB 269 405 15 TON P&H 0C-1 #1 WHSE BRIDGE CRANES 3301041 T C EB 281 831 15 TON SHAW BOX BR29 #8 PLATEN BRIDGE CRANES 3301041 T C EB 281 838 15 TON SHAW BOX BR29 #8 PLATEN BRIDGE CRANES 1IPDR 3301044 T C WB 134 830 TON MAGNET WENZLAFF 2307 FAB SHOP BRIDGE CRANES 1IPDR 3301045 T C WB 104 813 20 TON MAGNET WENZLAFF 2307 FAB SHOP BRIDGE CRANES 1IPDR 3301045 T C WB 104 813 20 TON MAGNET WENZLAFF 2307 FAB SHOP BRIDGE CRANES 1IPDR 3301045 T C WB 104 813 20 TON MAGNET WENZLAFF 2307 FAB SHOP BRIDGE CRANES 1IPDR 3301045 T C WB 104 813 20 TON MAGNET WENZLAFF 2307 FAB SHOP BRIDGE CRANES 1IPDR 3301045 T C WB 104 813 20 TON MAGNET WENZLAFF 2307 FAB SHOP BRIDGE CRANES 1IPDR 3301045 T C WB	3301021	T C WE	100	602	1 TON (ELECT. HAND)					
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3301031 T C WB 100 602 BRIDGE CRANE 2 TON CHECO 056002 BLDG & AREA -WB BRIDGE CRANES 3301032 T C WB 100 0 2 TON CHECO 29149/OBLDG & AREA -WB BRIDGE CRANES 3301033 T C WB 191 831 7.5 TON CHECO 056006 PIPE-COMB SHOP BRIDGE CRANES 3301034 T C WB 100 602 2 TON CHECO 056003 BLDG & AREA -WB BRIDGE CRANES 3301035 T C WB 190 822 5 TON CHECO 056001/MACH-COMB SHOP BRIDGE CRANES 3301036 T C WB 130 851 15/5 TON READING C-8193-ALUM FAB SHOP BRIDGE CRANES 3301037 T C WB 130 851 5 TON KEANCO 5728 ALUM FAB SHOP BRIDGE CRANES 3301038 T C WB 137 827 6 TON CRANE / HOIST AMERICAN/P&H 640N/A /T-BOILER ERECT BRIDGE CRANES 3301040 T C EB 269 405 15 TON P&H 0C-1 #1 WHSE BRIDGE CRANES 3301041 T C EB 281 811 15 TON P&H 10769 #8 PLATEN BRIDGE CRANES 3301042 T C EB 281 838 15 TON SHAW BOX BR29 #8 PLATEN BRIDGE CRANES 3301043 T E EB 281 811 15 TON INDUSTRIAL CRANE BR30 #8 PLATEN BRIDGE CRANES 3301044 T C WB 104 813 20 TON MAGNET WENZLAFF 2306 FAB SHOP BRIDGE CRANES 3301045 T C WB 104 813 20 TON MAGNET WENZLAFF 2306 FAB SHOP BRIDGE CRANES 3301045 T C WB 104 813 20 TON MAGNET WENZLAFF 2306 FAB SHOP BRIDGE CRANES	3301029	TEE	27.	3 203	5 5 TON	LOAD LIFTER	E4-23	#10 WHSE	BRIDGE CRANES	2925R
3301032 T C WB 100 O 2 TON CHECO 29149/OBLDG & AREA -WB BRIDGE CRANES 3301033 T C WB 191 831 7.5 TON CHECO 056006 PIPE-COMB SHOP BRIDGE CRANES 3301034 T C WB 100 602 2 TON CHECO 056003 BLDG & AREA -WB BRIDGE CRANES 3301035 T C WB 190 822 5 TON CHECO 056001/MACH-COMB SHOP BRIDGE CRANES 3301036 T C WB 130 851 15/5 TON READING C-8193-ALUM FAB SHOP BRIDGE CRANES 3301037 T C WB 130 851 5 TON KEANCO 5728 ALUM FAB SHOP BRIDGE CRANES 3301038 T C WB 137 827 6 TON CRANE / HOIST AMERICAN/P&H 640N/A /T-BOILER ERECT BRIDGE CRANES 3301039 T C WB 137 827 6 TON CRANE / HOIST AMERICAN/P&H 640N/A /T-BOILER ERECT BRIDGE CRANES 3301040 T C EB 269 405 15 TON P&H 0C-1 #1 WHSE BRIDGE CRANES 3301041 T C EB 281 811 15 TON P&H 10769 #8 PLATEN BRIDGE CRANES 3301042 T C EB 281 838 15 TON SHAW BOX BR29 #8 PLATEN BRIDGE CRANES 3301043 T E EB 281 811 15 TON INDUSTRIAL CRANE BR30 #8 PLATEN BRIDGE CRANES 3301044 T C WB 104 813 20 TON MAGNET WENZLAFF 2307 FAB SHOP BRIDGE CRANES 3301045 T C WB 104 813 20 TON MAGNET WENZLAFF 2306 FAB SHOP BRIDGE CRANES 3301045 T C WB 104 813 20 TON MAGNET WENZLAFF 2306 FAB SHOP BRIDGE CRANES	3301030	TCWE	19	2 825	7.5 TON	CHECO	056005	SHEEMTL-COMB SH	BRIDGE CRANES	
3301033 T C WB 191 831 7.5 TON CHECO 056006 PIPE-COMB SHOP BRIDGE CRANES 3301034 T C WB 100 602 2 TON CHECO 056003 BLDG & AREA -WB BRIDGE CRANES 3301035 T C WB 190 822 5 TON CHECO 056001/MACH-COMB SHOP BRIDGE CRANES 3301036 T C WB 130 851 15/5 TON READING C-8193-ALUM FAB SHOP BRIDGE CRANES 3301037 T C WB 130 851 5 TON KEANCO 5728 ALUM FAB SHOP BRIDGE CRANES 3301038 T C WB 137 827 6 TON CRANE / HOIST AMERICAN/P&H 640N/A /T-BOILER ERECT BRIDGE CRANES 3301039 T C WB 137 827 6 TON CRANE / HOIST AMERICAN/P&H 640N/A /T-BOILER ERECT BRIDGE CRANES 3301040 T C EB 269 405 15 TON P&H 0C-1 #1 WHSE BRIDGE CRANES 3301041 T C EB 281 811 15 TON P&H 10769 #8 PLATEN BRIDGE CRANES 3301042 T C EB 281 838 15 TON SHAW BOX BR29 #8 PLATEN BRIDGE CRANES 3301043 T E EB 281 811 15 TON INDUSTRIAL CRANE BR30 #8 PLATEN BRIDGE CRANES 3301045 T C WB 104 813 20 TON MAGNET WENZLAFF 2306 FAB SHOP BRIDGE CRANES 3301045 T C WB 104 813 20 TON MAGNET WENZLAFF 2306 FAB SHOP BRIDGE CRANES BRIDGE CRANES BRIDGE CRANES IIPDR	3301031	TCW	3 10	0 602	BRIDGE CRANE 2 TON				BRIDGE CRANES	
3301034 T C WB 100 602 2 TON CHECO 056003 BLDG & AREA -WB BRIDGE CRANES 3301035 T C WB 190 822 5 TON CHECO 056001/MACH-COMB SHOP BRIDGE CRANES 3301036 T C WB 130 851 15/5 TON READING C-8193-ALUM FAB SHOP BRIDGE CRANES 3301037 T C WB 130 851 5 TON KEANCO 5728 ALUM FAB SHOP BRIDGE CRANES 3301038 T C WB 137 827 6 TON CRANE / HOIST AMERICAN/P&H 640N/A /T-BOILER ERECT BRIDGE CRANES 3301039 T C WB 137 827 6 TON CRANE / HOIST AMERICAN/P&H 640N/A /T-BOILER ERECT BRIDGE CRANES 3301040 T C EB 269 405 15 TON P&H 0C-1 #1 WHSE BRIDGE CRANES 3301041 T C EB 281 811 15 TON P&H 10769 #8 PLATEN BRIDGE CRANES 3301042 T C EB 281 838 15 TON SHAW BOX BR29 #8 PLATEN BRIDGE CRANES 3301044 T C WB 104 813 20 TON MAGNET WENZLAFF 2300 FAB SHOP BRIDGE CRANES 3301045 T C WB 104 813 20 TON MAGNET WENZLAFF 2306 FAB SHOP BRIDGE CRANES	3301032	T C WE	3 10	0 (2 TON					1816R
3301035 T C WB 190 822 5 TON CHECO 056001/MACH-COMB SHOP BRIDGE CRANES 3301036 T C WB 130 851 15/5 TON READING C-8193-ALUM FAB SHOP BRIDGE CRANES 3301037 T C WB 130 851 5 TON KEANCO 5728 ALUM FAB SHOP BRIDGE CRANES 3301038 T C WB 137 827 6 TON CRANE / HOIST AMERICAN/P&H 640N/A /T-BOILER ERECT BRIDGE CRANES 3301039 T C WB 137 827 6 TON CRANE / HOIST AMERICAN/P&H 640N/A /T-BOILER ERECT BRIDGE CRANES 3301040 T C EB 269 405 15 TON P&H 0C-1 #1 WHSE BRIDGE CRANES 3301041 T C EB 281 811 15 TON P&H 10769 #8 PLATEN BRIDGE CRANES 3301042 T C EB 281 838 15 TON SHAW BOX BR29 #8 PLATEN BRIDGE CRANES 3301043 T E EB 281 811 15 TON INDUSTRIAL CRANE BR30 #8 PLATEN BRIDGE CRANES 3301044 T C WB 104 813 20 TON MAGNET WENZLAFF 2306 FAB SHOP BRIDGE CRANES 3301045 T C WB 104 813 20 TON MAGNET WENZLAFF 2306 FAB SHOP BRIDGE CRANES	3301033	TCW	19	1 831	7.5 TON					
3301036 T C WB 130 851 15/5 TON READING C-8193-ALUM FAB SHOP BRIDGE CRANES 3301037 T C WB 130 851 5 TON KEANCO 5728 ALUM FAB SHOP BRIDGE CRANES 3301038 T C WB 137 827 6 TON CRANE / HOIST AMERICAN/P&H 640N/A /T-BOILER ERECT BRIDGE CRANES 3301039 T C WB 137 827 6 TON CRANE / HOIST AMERICAN/P&H 640N/A /T-BOILER ERECT BRIDGE CRANES 3301040 T C EB 269 405 15 TON P&H 0C-1 #1 WHSE BRIDGE CRANES 3301041 T C EB 281 811 15 TON P&H 10769 #8 PLATEN BRIDGE CRANES 3301042 T C EB 281 838 15 TON SHAW BOX BR29 #8 PLATEN BRIDGE CRANES 3301043 T E EB 281 811 15 TON INDUSTRIAL CRANE BR30 #8 PLATEN BRIDGE CRANES 3301044 T C WB 104 813 20 TON MAGNET WENZLAFF 2306 FAB SHOP BRIDGE CRANES 3301045 T C WB 104 813 20 TON MAGNET WENZLAFF 2306 FAB SHOP BRIDGE CRANES						CHECO	056003	BLDG & AREA -WB	BRIDGE CRANES	
3301037 T C WB 130 851 5 TON KEANCO 5728 ALUM FAB SHOP BRIDGE CRANES 3301038 T C WB 137 827 6 TON CRANE / HOIST AMERICAN/P&H 640N/A /T-BOILER ERECT BRIDGE CRANES 3301039 T C WB 137 827 6 TON CRANE / HOIST AMERICAN/P&H 640N/A /T-BOILER ERECT BRIDGE CRANES 3301040 T C EB 269 405 15 TON P&H 0C-1 #1 WHSE BRIDGE CRANES 3301041 T C EB 281 811 15 TON P&H 10769 #8 PLATEN BRIDGE CRANES 3301042 T C EB 281 838 15 TON SHAW BOX BR29 #8 PLATEN BRIDGE CRANES 3301043 T E EB 281 811 15 TON INDUSTRIAL CRANE BR30 #8 PLATEN BRIDGE CRANES 3301044 T C WB 104 813 20 TON MAGNET WENZLAFF 2306 FAB SHOP BRIDGE CRANES 3301045 T C WB 104 813 20 TON MAGNET WENZLAFF 2306 FAB SHOP BRIDGE CRANES	3301035	TCW	3 19	0 822	2 5 TON			·-		
3301038 T C WB 137 827 6 TON CRANE / HOIST AMERICAN/P&H 640N/A /T-BOILER ERECT BRIDGE CRANES 3301039 T C WB 137 827 6 TON CRANE / HOIST AMERICAN/P&H 640N/A /T-BOILER ERECT BRIDGE CRANES 3301040 T C EB 269 405 15 TON P&H 0C-1 #1 WHSE BRIDGE CRANES 3301041 T C EB 281 811 15 TON P&H 10769 #8 PLATEN BRIDGE CRANES 3301042 T C EB 281 838 15 TON SHAW BOX BR29 #8 PLATEN BRIDGE CRANES 3301043 T E EB 281 811 15 TON INDUSTRIAL CRANE BR30 #8 PLATEN BRIDGE CRANES 3301044 T C WB 104 813 20 TON MAGNET WENZLAFF 2307 FAB SHOP BRIDGE CRANES 3301045 T C WB 104 813 20 TON MAGNET WENZLAFF 2306 FAB SHOP BRIDGE CRANES	3301036	TCW	3 13	0 851	1 15/5 TON	READING	c-8193	-ALUM FAB SHOP	BRIDGE CRANES	
3301040 T C WB 137 827 6 TON CRANE / HOIST AMERICAN/P&H 640N/A /T-BOILER ERECT BRIDGE CRANES 3301040 T C EB 269 405 15 TON P&H 0C-1 #1 WHSE BRIDGE CRANES 3301041 T C EB 281 811 15 TON P&H 10769 #8 PLATEN BRIDGE CRANES 3301042 T C EB 281 838 15 TON SHAW BOX BR29 #8 PLATEN BRIDGE CRANES 11PDR 3301043 T E EB 281 811 15 TON INDUSTRIAL CRANE BR30 #8 PLATEN BRIDGE CRANES 3301044 T C WB 104 813 20 TON MAGNET WENZLAFF 2307 FAB SHOP BRIDGE CRANES 3301045 T C WB 104 813 20 TON MAGNET WENZLAFF 2306 FAB SHOP BRIDGE CRANES									BRIDGE CRANES	
3301040 T C EB 269 405 15 TON P&H OC-1 #1 WHSE BRIDGE CRANES 3301041 T C EB 281 811 15 TON P&H 10769 #8 PLATEN BRIDGE CRANES 3301042 T C EB 281 838 15 TON SHAW BOX BR29 #8 PLATEN BRIDGE CRANES IIPDR 3301043 T E EB 281 811 15 TON INDUSTRIAL CRANE BR30 #8 PLATEN BRIDGE CRANES 3301044 T C WB 104 813 20 TON MAGNET WENZLAFF 2307 FAB SHOP BRIDGE CRANES 3301045 T C WB 104 813 20 TON MAGNET WENZLAFF 2306 FAB SHOP BRIDGE CRANES									BRIDGE CRANES	
3301041 T C EB 281 811 15 TON P&H 10769 #8 PLATEN BRIDGE CRANES 3301042 T C EB 281 838 15 TON SHAW BOX BR29 #8 PLATEN BRIDGE CRANES IIPDR 3301043 T E EB 281 811 15 TON INDUSTRIAL CRANE BR30 #8 PLATEN BRIDGE CRANES 3301044 T C WB 104 813 20 TON MAGNET WENZLAFF 2307 FAB SHOP BRIDGE CRANES 3301045 T C WB 104 813 20 TON MAGNET WENZLAFF 2306 FAB SHOP BRIDGE CRANES	3301039	TCW	3 13	7 827	7 6 TON CRANE / HOIST	AMERICAN/P&H 64	ON/A /T	-BOILER ERECT	BRIDGE CRANES	
3301042 T C EB 281 838 15 TON SHAW BOX BR29 #8 PLATEN BRIDGE CRANES IIPDR 3301043 T E EB 281 811 15 TON INDUSTRIAL CRANE BR30 #8 PLATEN BRIDGE CRANES 3301044 T C WB 104 813 20 TON MAGNET WENZLAFF 2307 FAB SHOP BRIDGE CRANES 3301045 T C WB 104 813 20 TON MAGNET WENZLAFF 2306 FAB SHOP BRIDGE CRANES	3301040	TCE	3 26	9 405	5 15 TON	P&I	00-1	#1 WHSE	BRIDGE CRANES	
3301043 T E EB 281 811 15 TON INDUSTRIAL CRANE BR30 #8 PLATEN BRIDGE CRANES 3301044 T C WB 104 813 20 TON MAGNET WENZLAFF 2307 FAB SHOP BRIDGE CRANES 3301045 T C WB 104 813 20 TON MAGNET WENZLAFF 2306 FAB SHOP BRIDGE CRANES	3301041	TCE	3 28	1 811	I 15 TON	P&I	10769	#8 PLATEN	BRIDGE CRANES	
3301044 T C WB 104 813 20 TON MAGNET WENZLAFF 2307 FAB SHOP BRIDGE CRANES 3301045 T C WB 104 813 20 TON MAGNET WENZLAFF 2306 FAB SHOP BRIDGE CRANES	3301042	TCE	3 28	1 838					BRIDGE CRANES	IIPDR
3301045 T C WB 104 813 20 TON MAGNET WENZLAFF 2306 FAB SHOP BRIDGE CRANES	3301043	TEE	3 28	1 811	1 15 TON	INDUSTRIAL CRAN	IE BR30	#8 PLATEN	BRIDGE CRANES	
	3301044	T C WE	3 10	4 813	3 20 TON MAGNET	WENZLAF	2307	FAB SHOP	BRIDGE CRANES	
3301046 T E EB 104 813 20 TON HOOK WENZLAFF 2302 FAB SHOP BRIDGE CRANES	3301045	TCWE	3 10	4 813	20 TON MAGNET	WENZLAF			_	
	3301046	TEE	3 10	4 813	S 20 TON HOOK	WENZLAFI	2302	FAB SHOP	BRIDGE CRANES	

SSET TRK E/W	LOC		MANUFACTURERS	SERIAL	LOCATION	CATEGORY	
						DESCRIPTION	CARN
	•••	EQUIP DESCRIPTION				••••••	
		20 TON HOOK			FAB SHOP	BRIDGE CRANES	
3301048 T C WB	104 813	20 TON HOOK	WENZLAFF		FAB SHOP	BRIDGE CRANES	•
		20 TON MAGNET			FAB SHOP	BRIDGE CRANES	
3301050 T C WB				2301	FAB SHOP	BRIDGE CRANES	
		15 / 5 TON HOOK			FAB SHOP	BRIDGE CRANES	
		7 50/10 TON HOOK			SHELL SHOP	BRIDGE CRANES	
		7 50/ 10 TON HOOK			SHELL SHOP	BRIDGE CRANES	
		20 TON MAGNET				BRIDGE CRANES	
3301055 T C WB	106 836	5 70 TON TURNOVER	EDERER	E5416	PANEL SHOP	BRIDGE CRANES	
		1 10 / 5 TON HOOK				BRIDGE CRANES	
3301057 T C FB	250 601	5 TON CRANE OC-15	D&H	T-3883	1SOPR	BRIDGE CRANES	
3301057 T C EB	250 601	I 5 TON CRANE OC-15 I 5 TON CRANE OC-13	P & M	1 M 22	SSORR	BRIDGE CRANES	
3301050 T C ER	250 668	R 5 TON CRANE OC 13	N & 11	461280	/CODB	BRIDGE CRANES	tippp
3301037 T C EB	250 440	3 30 TON CRANE OC- 12		461200	/SORB	BRIDGE CRANES	IIPDR
7701060 T C ED	250 440	3 5 TON CRANE OC- 12 3 30 TON CRANE OC-8/8A 1 5 TON 2 20/5 TON HOOK	n Or 11	001270	CORP	BRIDGE CRANES	2924R
3301001 1 E ED	222 822	2 20 /5 TOU HOOF	MILLIANIVEE COANE	112000	1MACU CUOD	BRIDGE CRANES	
3301062 T E EB	170 951	LE TOU	MILWAUKEE CRARE	2501-0	ALUM FAB SHOP	BRIDGE CRANES	
7701065 1 C WB	350 401	1 3 TON	UNECU	T2645			
3301004 1 E EB	220 001	2 5 TON	WKIUNI TUDUCTOTAL CDAN			BRIDGE CRANES	
7701064 T C UD	101 074	7 F TON BOTT DIN	INDUSTRIAL CRAN	04707 04707	MACH SHUP	BRIDGE CRANES	
3301000 I C WB	774 047	7.5 TON BOTT.RUN 5 5 TON	K&M	U 1383	PIPE-COMB SHOP	BRIDGE CRANES	
						BRIDGE CRANES	
		7 8.5 TON BOT.RUN				BRIDGE CRANES	
3301069 T C EB		1 2 TON	P& H	EL98	PIPE SHOP	BRIDGE CRANES	IIPDR
3301070 T C EB						BRIDGE CRANES	IIPDR
3301071 T E EB	231 825	5 2 TON	WHITING TRAMBEA	M N/A	SHEETMTL SHOP	BRIDGE CRANES	IIPDR
3301072 T C EB	240 831	1 2 TON 1 2 TON 2 20.5 TON D UNASSIGNED	Р& Н	EL110	PIPE SHOP	BRIDGE CRANES	IIPDR
3301073 T C EB	240 831	1 2 TON	Р& Н	EL110	PIPE SHOP	BRIDGE CRANES	IIPDR
3301074 T C EB	222 822	2 20.5 TON	ROBBINS & MYERS	35477F	JMACH SHOP	BRIDGE CRANES	
						BRIDGE CRANES	2922R
		1 81/2T BOTTOM RUN W/HST				BRIDGE CRANES	
		1 81/2T BOTTOM RUN W/HST				BRIDGE CRANES	
3301078 X C WB	0 (UNASSIGNED 1 2 TON OVERHEAD TRAM RL	N/A	N/A	BOTH EB/WB YD	BRIDGE CRANES	
						BRIDGE CRANES	IIPDR
		1 2 TON OVERHEAD TRAM RL					IIPDR
3301081 T C EB	240 831	1 2 TON OVERHEAD TRAM RL	Р& Н	EL106	PIPE SHOP	BRIDGE CRANES	IIPDR
3301082 T C WB	104 813	3 20 TON BRIDGE CRANE	ORLEY MYERS	3815	FAB SHOP	BRIDGE CRANES	
3301084 T C WB	191 831	1 7.5 TON	DEXIE/ROBBINS &	44895M	GPIPE-COMB SHOP	BRIDGE CRANES	
3301085 T C WB	191 831	1 7.5 TON	DEXIE/ROBBINS &	44895M	GPIPE-COMB SHOP	BRIDGE CRANES	
3301086 T C EB	282 890	0 15 TON	Р& Н	1176	#7 PLATEN	BRIDGE CRANES	
3301087 T C EB	235 890	0 15 TON	Р& Н	11048	FAB SHOP	BRIDGE CRANES	
3301088 T C WB	104 813	3 20 T. (2) 20&5 T. HOI:	SVIA NOVA/DESHAZ	0147661	PFAB SHOP	BRIDGE CRANES	
3301089 T C WB	104 813	3 15 TON	NORTHERN/DESHAZ	02202(H	OFAB SHOP	BRIDGE CRANES	
3301090 T C WB	104 813	3 15 TON	SHAW BOX/YALE	AX2206	OFAB SHOP	BRIDGE CRANES	
3301091 T C EB	235 890	0 10/2 TON	CHISOLM MOORE/D	RC-1633	/FAB SHOP	BRIDGE CRANES	
3301092 T C EB	235 890	0 10 TON (15 TON)	MILWAUKEE/R&M	BR22/4	8FAB SHOP	BRIDGE CRANES	
3301093 T C EB	235 890	0 10/ 15 TON.			'6FAB SHOP	BRIDGE CRANES	
3301094 T C EB			SHEPARD/NILE			BRIDGE CRANES	
3301095 T C EB			SHAW BOX		#9 PLATEN	BRIDGE CRANES	
		0 5 TON (BRIDGE ONLY)				BRIDGE CRANES	2925R
		,,					_,_,,

ASSET	TRK E/W	LOC		MANUFACTURERS	SERIAL	LOCATION	CATEGORY	
NUMBER	CEO	CDE C/C	EQUIP DESCRIPTION	NAME	NO.	DESCRIPTION	N DESCRIPTION	CARN
				•••••			•• ••••••	• • • • • • • • • • • • • • • • • • • •
3301097	T C EB	282 890	15 TON			PLATEN		
3301098	T C EB	235 890	2 TON UNDERHUNG					
3301099	T C EB	240 890	2 TON UNDERHUNG	CLEVELAND/P&H				
				CLEVELAND/P&H				
3301101	T C EB	240 890	2 TON UNDERHUNG	CLEVELAND/P&H	T358485PI	PE SHOP	BRIDGE CRANES	
3301102	T C EB	240 890	2 TON UNDERHUNG	CLEVELAND/P&H	T-35848PI	PE SHOP	BRIDGE CRANES	
3301103	T C EB	240 890	2 TON UNDERHUNG	CLEVELAND/P&H	T-35848PI	PE SHOP	BRIDGE CRANES	
3301104	T C EB	240 890	1 TON UNDERHUNG	CLEVELAND/P&H	T-35848PI	PE SHOP	BRIDGE CRANES	
3301105	T C EB	280 890	20/5 TON HOOK	DESHAZO/P&H	T58657(#2	PLATEN	BRIDGE CRANES	
3301106	T C EB	279 890	20/5 TON HOOK	DESHAZO/P&H	T58656(#1	PLATEN	BRIDGE CRANES	
			5 TON HOOK	R & M	461280/#7	P HH/WAY	BRIDGE CRANES	
3301108	T C EB	283 890	1 TON UNDERHUNG HOOK				BRIDGE CRANES	
3301109	T C EB	235 890	4/2/2 TON	DESHAZO/P&H/P&H	1746-1/F	AB SHOP	BRIDGE CRANES	
3301110	T C EB	235 890	4/2/2 TON	DESHAZO/P&H/P&H	1746-2/FA	AB SHOP	BRIDGE CRANES	
3301111	T C EB	235 890	7.5 TON	DESHAZO/P&H	1745-2/FA	AB SHOP	BRIDGE CRANES	
3301112	T C EB	235 890) 5 TON	DESHAZO/P&H	1745-2/F#	AB SHOP	BRIDGE CRANES	
3301113	T C EB	235 890) 5 TON	DESHAZO/P&H			BRIDGE CRANES	
3301114	T C EB	235 890	5 TN TOP RUNNING			AB SHOP	BRIDGE CRANES	
			2 TON TOP RUNNING			AB SHOP	BRIDGE CRANES	
			2 TON TOP RUNNING			AB SHOP		
			2 TON TOP RUNNING					
			2 TON UNDERHUNG					
			2 TON UNDERHUNG					
			5 TON UNDRHUNG					
				SPANMASTER			BRIDGE CRANES	
			3 TON UNDERHUNG				BRIDGE CRANES	
			3 TON UNDERHUNG	SPANMASTER			BRIDGE CRANES	
			3 TON UNDERHUNG	SPANMASTER	91703D7F	AB SHOP	BRIDGE CRANES	
			3 TON UNDERHUNG	SPANMASTER	91703D7F	AB SHOP	BRIDGE CRANES	
			2 TON UNDERHUNG	SPANMASTER	8 610414 FA	AB SHOP	BRIDGE CRANES	
			2 TON UNDERHUNG			AB SHOP	BRIDGE CRANES	
			2 TON UNDERHUNG	SPANMASTER/P&			BRIDGE CRANES	
			2 TON UNDERHUNG	SPANMASTER/P&			BRIDGE CRANES	
			2 TON (.5 TON)	WHITING TRAM BE	AW4976-CSI	HEETMET SKOP	BRIDGE CRANES	
			2 TON (NO HOIST)	WHITING TRAM BE	AW4976/CS	HEETMET SHOP	BRIDGE CRANES	
				SPANMASTER/P&I				
			1 TON UNDERHUNG	SPANMASTER/P&H				
			1 TON UNDERHUNG	SPANMASTER/P&				
	- -		1 TON UNDERHUNG	SPANMASTER/P&				
			1 TON UNDERHUNG	SPANMASTER/P&				
			O 1 TON UNDERHUNG	SPANMASTER/P&H	-			
			1 TON UNDERHUNG	SPANMASTER/P&H				
) 1 TON UNDERHUNG	SPANMASTER/P&				
				SPANMASTER/P&				
			1 TON UNDERHUNG					
			1 TON UNDERHUNG	SPANMASTER/P&H				
			3 TON UNDERHUNG	ACCO LOUDEN/COS				
			1 TON UNDERHUNG HOOK	ACCO LOUDEN/COI			BRIDGE CRANES	
			5 TON HOOK		461280/#7		BRIDGE CRANES	
<i>55</i> 01145	I C WB	106 836	5 5 TON HOOK(W/R&M HOIS	i)SHEPARD NILES/	JEN/A/1//P/	ANEL SHUP	BRIDGE CRANES	

13E1 IKK E/W		PAROTACIONERO CENTRA		
	CDE C/C EQUIP DESCRIPTION			
	••• ••• ••••••			
	133 397 1/4 TON BRIDGE CRANE		BRIDGE CRANES	
		ISD/DESHAZO/BOWLN/A /40ALUM FAB SHOP		
	17 811 20 TON HOOK	ISD/DESHAZO/BOWLNA/4462COVERED SLAB AR	BRIDGE CRANES	
301149 T C WB	17 811 20 TON HOOK	•	BRIDGE CRANES	
3301150 T C WB	17 811 20 TON HOOK		BRIDGE CRANES	
5301151 T C WB	17 811 50 TON HOOK	ISD/DESHAZO/BOWLNA/4513COVERED SLAB AR	BRIDGE CRANES	
5301152 T C WB	17 811 50 TON HOOK	ISD/DESHAZO/BOWLNA/4513COVERED SLAB AR	BRIDGE CRANES	
5301153 T C WB	17 811 50 TON HOOK	ISD/DESHAZO/BOWLNA/4513COVERED SLAB AR	BRIDGE CRANES	
3301154 T C WB	17 811 50 TON HOOK	ISD/DESHAZO/BOWLNA/4513COVERED SLAB AR	BRIDGE CRANES	
3301155 T C WB	17 811 125 TON HOOK	ISD/DESHAZO/BOWLNA/4510COVERED SLAB AR	BRIDGE CRANES	
3301156 T C WB	17 811 125 TON HOOK	ISD/DESHAZO/BOWLNA/4510COVERED SLAB AR	BRIDGE CRANES	
3301157 X O WB	0 0 UNASSIGNED	ISD/DESHAZO/BOWL N/A BOTH EB/WB YD	BRIDGE CRANES	
3301158 T C WB	20 822 20 TON HOOK	ISD/DESHAZO/BOWL N/A MACH. PKG. AREA	BRIDGE CRANES	
3301159 T C WB	20 822 7.5 TON HOOK	ISD/DESHAZO/BOWL N/A MACH. PKG. AREA	BRIDGE CRANES	
3302001 X C WB	O O UNASSIGNED	N/A N/A BOTH EB/WB YD	GANTRY CRANES	
3302002 T C WB	0 0 10 TON HOOK	EDERER 1401001BOTH EB/WB YD EDERER 1901001BOTH EB/WB YD	GANTRY CRANES	
3302003 T C WB	0 0 10 TON	EDERER 1901001BOTH EB/WB YD	GANTRY CRANES	
3302004 T C WB	106 813 15 TON HOOK	DRUPP/DESHAZO TR2280/20PANEL SHOP	GANTRY CRANES	
		RY KRUPP 6545120FAB SHOP	GANTRY CRANES	
		KRUPP 2367-96FAB SHOP	GANTRY CRANES	
3302007 T C WB	154 815 15 TO HOOK	KRANCO 5916 SUB-ASSY-BAY1	GANTRY CRANES	2127R
3302008 T C WB	159 839 40 TON HOOK	EDERER 6047 NOD-ASSY BAY 1	GANTRY CRANES	
3302000 T C UR	155 839 AN TON HOOK	KRANCO 6378/K-SUB ASSY BAY2	GANTRY CRANES	
3302007 : G WB	155 839 40 TON HOOK	KRANCO 6379/K-SUR ASSY RAY2	GANTRY CRANES	
3302010 T C UR	155 839 15 TON HOOK	EDERER 6047 NOD-ASSY BAY 1 KRANCO 6378/K-SUB ASSY BAY2 KRANCO 6379/K-SUB ASSY BAY2 KRANCO 5915 SUB ASSY BAY2 KRANCO 5918 SUB ASSY BAY 3 KRANCO 6380/K5SUB ASSY BAY 4	GANTRY CRANES	2127R
3302011 T C UR	156 839 15 TON HOOK	KRANCO 5918 SUB ASSY RAY 3	GANTRY CRANES	2127R
3302012 T C UR	157 839 AN TON HOOK	YPANCO STROYSCHE ASSY RAY 4	GANTRY CRANES	LILIK
3302015 1 C WB	157 839 40 TON HOOK	KRANCO 6381/K6SUB ASSY BAY 4	GANTRY CRANES	
	158 839 40 TON HOOK	EDERER E9370 SUB ASSY BAY 5	GANTRY CRANES	
	158 839 15 TON HOOK	KRANCO 5917 SUB ASSY BAY 5	GANTRY CRANES	2127R
		KRANCO 6376/K1ALUM FAB SHOP		21218
	130 851 20 TON HOOK	KRANCO 6377/K2ALUM FAB SHOP	GANTRY CRANES GANTRY CRANES	
	225 602 1 TON HAND OPERATED		GANTRY CRANES	IIPDR
	233 813 16 TON MAGNET	VIA NOVA 15 PLATE STOR FAB	GANTRY CRANES	IIPDR
3302021 I C WB	100 602 OVERHAUL (SPARES)	N/A LABOR OBLDG & AREA -WB	GANTRY CRANES	9999R
3302022 I C WB	154 600 15 ION HOOK REM HOIST	KRANCO 8641 SUB ASSY BAY 1	GANTRY CRANES	
	156 600 15 TON HOOK R&M HOIST		GANTRY CRANES	
3302024 T C WB	158 400 15 TON HOOK P&H HOIST		GANTRY CRANES	
	158 400 15 TON HOOK P&H HOIST	` <u>-</u>	GANTRY CRANES	
	235 890 16 TON MAGNET	VIA NOVA 15 FAB SHOP	GANTRY CRANES	
3302027 T C EB	225 890 1 TON HAND OPERATER	LOAD LIFTER F1/213001VRWELD MACH REP	GANTRY CRANES	
3302031 T C EB	236 843 2 TON SELF STANDING	WALLACE S4T12S10761010 ELEC SHOP	GANTRY CRANES	
3302032 T C WB	3 851 20 TON HOOK (W. PLATE	N)ISD/DESHAZO/BOLINA/4019TRACK 1 NORTH	GANTRY CRANES	
3302033 T C WB	3 851 20 TN HOOK (E. PLATEN) ISD/DESHAZO/BOLINA/4019TRACK 1 NORTH	GANTRY CRANES	
3302034 T C WB	155 601 20 TON GANTRY CRANE	ISD/DESHAZO/BOLINA/4019SUB ASSY BAY 2	GANTRY CRANES	
3302035 T C WB	20 822 7.5 TON SEMI GANTRY	ISD/DESHAZO/BOWL N/A MACH. PLG. AREA	GANTRY CRANES	
3303000 T O WB	100 602 E/B STARTUP/SHOREPOWE	R N/A GEN PURBLDG & AREA -WB	PORTAL CRANES	
3303001 T C WB	100 400 200 TON LEVEL LUFFING	THENSEN 125 FT. L 6231 BLDG & AREA -WB	PORTAL CRANES	9999
		2HENSEN 125 FT. L 6232 BLDG & AREA -WB	PORTAL CRANES	

TRK E/W LOC

SET

LOCATION

ACCET	TOV E/U	Inc			MANUFACTURERS	SERIAL	LOCATION	CATEGORY	
ASSET				EQUIP DESCRIPTION			DESCRIPTION	DESCRIPTION	CARN
NUMBER		CDE							
		100	400	200 TON LEVEL LUFFING				PORTAL CRANES	
3303004				200 TON LEVEL LUFFING				PORTAL CRANES	
3303004				200 TON LEVEL LUFFING				PORTAL CRANES	
	T C WB			200 TON LEVEL LUFFING				PORTAL CRANES	9999
	X C WB			40 TON			BLDG & AREA -WB	PORTAL CRANES	00909R
	T C WB			39 TON	AMERICAN		BLDG & AREA -WB	PORTAL CRANES	
	T C WB	100	400	30 TON	AMERICAN	236	BLDG & AREA -WB	PORTAL CRANES	
	T C WB	100	n	39 TON 75 TON	WASH TRON RON W	6047	BLDG & AREA -WB	PORTAL CRANES	00911R
	TCWB				WASH IRON 24-15			PORTAL CRANES	
	X C WB				AMERICAN		BLDG & AREA -WB	PORTAL CRANES	00910R
				50 TON LUFFING WHIRLEY				PORTAL CRANES	
	T C WB						9BLDG & AREA -WB	PORTAL CRANES	9999
	T C EB						GRAVING DOCK	PORTAL CRANES	
	T C EB				AMERICAN		GRAVING DOCK	PORTAL CRANES	
	T C EB						#4 PIER	PORTAL CRANES	
	TCEB				AMERICAN		#3 PIER	PORTAL CRANES	
	TCEB				AMERICAN			PORTAL CRANES	
	T C EB				AMERICAN			PORTAL CRANES	
	T C EB				AMERICAN			PORTAL CRANES	
	TCEB				AMERICAN			PORTAL CRANES	
) 33 TON		170	#1 PIER		
					AMEDICAN	200	#2 PIER	PORTAL CRANES	
				1 33 TON 1 50 TON			#7 HH/WAY		IIPDR
2202022	TOED	250	400	1 50 TON	AMEDICAN	235	#6 HH/UAY	PORTAL CRANES	IIPDR
3303020	7 7 6 110	100	400	50 TON 50 TON	AMEDICAN*D-25	70-543	ORING & ARFA -UR	PORTAL CRANES	9999
	TCWB	100	400	75 TON	טאפא זפחט פחט ט	n 6177	RING & ARFA -WR	PORTAL CRANES	9999
	TCWB			75 TON			BLDG & AREA -WB	PORTAL CRANES	9999
					WASH IRON RON W			PORTAL CRANES	9999
	TCWB			OVERHAUL (SPARES)	N/A	LABOR	ORIDG & AREA -WB	PORTAL CRANES	9999R
) 50/15 TON	AMERICAN*R-25	235	OBLDG & AREA -WB #6 HH/WAY	PORTAL CRANES	
				50/15 TON		208	#7 HH/WAY	PORTAL CRANES	
				100 TON PORTAL CRANE					
				100 TON PORTAL CRANE					
				100 TON PORTAL CRANE					
				100 TON PORTAL CRANE			BLDG & AREA -WB		
	TCWB			300/25 TON PORTAL CRA				PORTAL CRANES	
	TCWB			300/25 TON PORTAL CRA				PORTAL CRANES	
	TCWB			300/25 TON PORTAL CRA				PORTAL CRANES	
	TCEB			JIB BOOM CRANE 1 TON	YALE		GALV/TEF BLDG.	JIB CRANES/PWR	3024R
	TCWB			JIB CRANE ELECT 1 TON	ABELL HOWE/YALE			JIB CRANES/PWR	3024R
	TEEB			JIB CRANE ELECT 1 TON			7PIPE-COMB SHOP	JIB CRANES/PWR	
	TCWB			JIB CRANE ELECT 1 TON			PIPE-COMB SHOP	JIB CRANES/PWR	3024R
	TCWB			JIB CRANE ELECT 1 TON			SIPIPE-COMB SHOP	JIB CRANES/PWR	3024R
	TCWB			JIB CRANE ELECT 1 TON			STPIPE-COMB SHOP	JIB CRANES/PWR	2879R
	TCWB			JIB CRANE ELECT 1 TON			SIPIPE-COMB SHOP	JIB CRANES/PWR	2879R
	T C WB			JIB CRANE ELECT 1 TON			SIPIPE-COMB SHOP	JIB CRANES/PWR	2879R
	TCWB			JIB CRANE ELECT 1 TON			STPIPE-COMB SHOP	JIB CRANES/PWR	2879R
	TCWB			JIB CRANE ELECT 1 TON			PIPE-COMB SHOP	JIB CRANES/PWR	3024R
	TCWB			I JIB CRANE ELECT 1 TON			S PIPE-COMB SHOP	JIB CRANES/PWR	
220201	I U WD	17	ادن	DID CRAME ELECT 1 TON	ABELL HOME CO.				

EI IKK	E/W	LUL		MANUFACTURERS	SERIAL LOCATION	CATEGORI	
BER CEO		CDE C/C	EQUIP DESCRIPTION	NAME	NO. DESCRIPTION	DESCRIPTION	CARN
	• • •					•••••	
					MS3120 PIPE-COMB SHOP	JIB CRANES/PWR	3024R
			JIB CRANE		75B5575ALUM FAB SHOP		
					75B5575ALUM FAB SHOP		
05014 T C			JIB CRANE ELECT 2 TON		ALUM.FAALUM FAB SHOP	JIB CRANES/PWR	
			- · · ·		75B5575ALUM FAB SHOP		
05016 T C			JIB CRANE ELECT 1 TON			JIB CRANES/PWR	
05017 T C			JIB CRANE ELECT 2 TON			JIB CRANES/PWR	
05018 T C			JIB CRANE ELECT 2 TON			JIB CRANES/PWR	
105019 T C			JIB CRANE ELECT 1 TON		STL.FABFAB SHOP	JIB CRANES/PWR	
105020 T C			JIB CRANE ELECT 1 TON			JIB CRANES/PWR	
105021 T C			JIB CRANE ELECT 1 TON	YALE	STL.FABFAB SHOP	JIB CRANES/PWR	
105022 T C			JIB CRANE ELECT 5 TON			JIB CRANES/PWR	
105023 T C	WB	104 813	JIB CRANE ELECT 5 TON	RELIABLE CRANE/	RSTL.FABFAB SHOP	JIB CRANES/PWR	
305024 T C	WB	104 813	JIB CRANE ELECT 1 TON	ROBBINS & MEYER	SSTL.FABFAB SHOP	JIB CRANES/PWR	
305025 T C	WB	104 813	JIB CRANE ELECT 1 TON	ABELL HOWE CO.	69B1181FAB SHOP	JIB CRANES/PWR	
505026 T C	WB	104 813	JIB CRANE ELECT 1 TON	ABELL HOWE CO.	69B1181FAB SHOP	JIB CRANES/PWR	
505027 T C			JIB CRANE ELECT 1.5 T			JIB CRANES/PWR	
305028 T C	WB	104 813	JIB CRANE	YALE HOIST	STL.FABFAB SHOP	JIB CRANES/PWR	
305029 T C	WB	104 813	JIB CRANE HYD	SCOTT MIDLAND	7006 FAB SHOP	JIB CRANES/PWR	
					QA10662FAB SHOP		
					STL.FABFAB SHOP		
					STL.FABFAB SHOP		
						JIB CRANES/PWR	
			JIB CRANE ELECT 0.5 T				
303034 1 0		221 002	JIB CRANE PNEUMATIC	N/F	B876 FAB SHOP	JIB CRANES/PWR	
305035 1 0	FR	222 822	JIB CRANE ELECT 1 TON	TALE	N/A MACH ASSY	JIB CRANES/PWR	
305036 T C	: MB	100 602	2 JIB CRANE HYD	SUPERMASTER	YYUZ MACH SHOP	JIB CRANES/PWR	
305037 T C	: WB	131 602	2 JIB CRANE ELECT 1 TON 2 JIB CRANE ELECT 2 TON	N/A	N/A BLDG & AREA -WB	JIB CRANES/PWR	
305038 T C	: WB	128 602	2 JIB CRANE ELECT 2 TON	YALE	N/A MAINT/FACIL BLD	JIB CRANES/PWR	
305039 T C	: WB	128 602	2 JIB CRANE ELECT 2 TON	YALE	N/A COMBINE SHOP	JIB CRANES/PWR	
305040 T C	: WB	104 827	7 JIB CRANE ELECT 2 TON	WRIGHT	N/A COMINE SHOP	JIB CRANES/PWR	
305041 T C	: WB	104 827	7 JIB CRANE ELECT 5 TO	BOBBINS & MEYER	RS N/A FAB SHOP	JIB CRANES/PWR	
305042 T C	WB	104 813	JIB CRANE ELECT 5 TO	BOBBINS & MEYER	RS N/A FAB SHOP	JIB CRANES/PWR	
305043 T C	WB	104 813	JIB CRANE ELECT 5 TO	BOBBINS & MEYER	RS N/A FAB SHOP	JIB CRANES/PWR	3083R
305045 T C	: WB	106 813	JIB CRANE ELECT .5 TO	N CONCO CRANE	N/A PANEL SHOP	JIB CRANES/PWR	
305046 T C	WB	106 813	3 JIB CRANE ELECT .5 TO	N CONCO CRANE	N/A PANEL SHOP	JIB CRANES/PWR	
305047 T C	: WB	106 822	2 JIB CRANE ELECT .5 TO	N CONCO CRANE	N/A PANEL SHOP	JIB CRANES/PWR	
			5 JIB CRANE ELECT .5 TO				
305049 T C			S JIB CRANE ELECT 1 TO			JIB CRANES/PWR	
305050 T C			S JIB CRANE ELECT 1 TO			JIB CRANES/PWR	
			S JIB CRANE ELECT 1 TO				
305051 T C						JIB CRANES/PWR	
305052 T C			2 JIB CRANE ELECT 1 TO			JIB CRANES/PWR	
305053 T C			2 JIB CRANE ELECT 1 TO			JIB CRANES/PWR	
305054 T C			2 JIB CRANE ELECT 1 TO			JIB CRANES/PWR	
305055 T C	: EB		2 JIB CRANE ELECT 1 TO		N/A MACH SHOP	JIB CRANES/PWR	
305056 T C	: EB		2 JIB CRANE ELECT .5 TO		EL58 MACH SHOP	JIB CRANES/PWR	
305057 T C	EB	274 405	JIB CRANE ELECT 1 TO	COFFING HOIST	CO N/A #10A WHSE	JIB CRANES/PWR	
305058 T C	EB.	274 405	JIB CRANE ELECT 1 TO	COFFING HOIST	CO N/A #10A WHSE	JIB CRANES/PWR	
305059 T C	EB :	235 813	S ELECT WALL MTD 1 TON	YALE	EL90 FAB SHOP	JIB CRANES/PWR	
305060 T 0	EB	235 813	S ELECT WALL MTD 2 TON	YALE	EL89 FAB SHOP	JIB CRANES/PWR	IIPDR
305061 T C			B ELECT WALL MTD 5 TON	N//	A EL81 FAB SHOP	JIB CRANES/PWR	
				·			

MANUFACTURERS SERIAL LOCATION

TRK E/W LOC

ASSET	TRK E/W	LOC		MANUFACTURERS	SERIAL LOCATION	CATEGORY	
NUMBER	CEO	CDE C/C	EQUIP DESCRIPTION	NAME	NO. DESCRIPTION	DESCRIPTION	CARN
			•••••				
3305062	T C EB		ELECT PEDESTAL 3 TON			JIB CRANES/PWR	IIPDR
3305063	T C WB		ELECT WALL MTD 1 TON			JIB CRANES/PWR	
	T C EB	235 813	ELECT PEDESTAL 3 TON	YALE	EL86 FAB SHOP	JIB CRANES/PWR	IIPDR
3305065	T C WB	104 813	ELECT PEDESTAL 3 TON	YALE	EL88 FAB SHOP	JIB CRANES/PWR	
3305066	T C EB	283 811	ELECT WALL MTD 3 TON UNASSINGED	YALE	N/A #9 PLATEN	JIB CRANES/PWR	
3305067	X C WB	0 0	UNASSINGED	N/A	N/A BOTH EB/WB YD	JIB CRANES/PWR	
3305068	T C WB	100 602	JIB CRANE ELECT 1 TON	ABELL HOWE CO.	77B7580BLDG & AREA -WB	JIB CRANES/PWR	
3305069	T C WB	100 602	JIB CRANE ELECT 1 TON	ABELL HOWE CO.	7787580BLDG & AREA -WB	JIB CRANES/PWR	
3305070	T C WB	191 602	JIB CRANE ELECT 1 TON	ABELL HOWE CO.	7787580PIPE-COMB SHOP	JIB CRANES/PWR	
3305071	T C WB	191 602	JIB CRANE ELECT 1 TON	ABELL HOWE CO.	77B7580PIPE-COMB SHOP	JIB CRANES/PWR	
3305072	T C WB	100 602	JIB CRANE ELECT 1 TON	ABELL HOWE CO.	7787580BLDG & AREA -WB	JIB CRANES/PWR	
3305073	T C WB	100 602	JIB CRANE ELECT 1 TON	ABELL HOWE CO.	77B7580BLDG & AREA -WB	JIB CRANES/PWR	
3305074	T C WB	100 602	JIB CRANE ELECT 1 TON	ABELL HOWE CO.	77875808LDG & AREA -WB	JIB CRANES/PWR	
3305075	T C WB	100 602	JIB CRANE ELECT 1 TON	ABELL HOWE CO.	7787580BLDG & AREA -WB	JIB CRANES/PWR	
3305076	T C WB	100 602	JIB CRANE ELECT 1 TON	ABELL HOWE CO.	7787580BLDG & AREA -WB	JIB CRANES/PWR	
3305077	T C WB	100 602	JIB CRANE ELECT 1 TON	ABELL HOWE CO.	77875808LDG & AREA -WB	JIB CRANES/PWR	
3305078	T C WB	100 602	JIB CRANE ELECT 1 TON	ABELL HOWE CO.	77B7580BLDG & AREA -WB	JIB CRANES/PWR	
3305080	T C WB		JIB CRANE ELECT 1 TON	ABELL HOWE CO.	7787589BLDG & AREA -WB	JIB CRANES/PWR	
	T C WB	100 602	JIB CRANE ELECT 1 TON	ABELL HOWE CO.	77875808LDG & AREA -WB	JIB CRANES/PWR	
	TCWB		JIB CRANE ELECT 1 TON		7787580BLDG & AREA -WB	JIB CRANES/PWR	
	T C WB		JIB CRANE ELECT 1 TON		7787580PIPE-COMB SHOP	JIB CRANES/PWR	
	TCWB		JIB CRANE ELECT 1 TON	ABELL HOWE CO.	7787580BLDG & AREA -WB	JIB CRANES/PWR	
			JIB CRANE ELECT 1 TON		77B7580BLDG & AREA -WB		
			JIB CRANE ELECT 1 TON		77B7580BLDG & AREA -WB		
	TCWB		JIB CRANE ELECT 1 TON		7787580BLDG & AREA -WB		
	TCWB		JIB CRANE ELECT 1 TON		77875808LDG & AREA -WB	•	
	TCWB		JIB CRANE ELECT 1 TON		77B7580BLDG & AREA -WB		
	TCWB		JIB CRANE ELECT 1 TON		77B7580BLDG & AREA -WB		
	T C WB		JIB CRANE ELECT 1 TON		7787580BLDG & AREA -WB	•	
	TCWB		JIB CRANE ELECT 1 TON		77B7580BLDG & AREA -WB		
	TCWB		JIB CRANE		77B8687COMBINE SHOP	•	
	TCEB		JIB BOOM 3000#				
					168191 MACH SHOP		
			2 JIB W/ HOIST 3 TON		74B4602FAB SHOP		
3305070	TER	222 822	LITE CRANE U/1 TON HOTS	T RRDGET	N/A MACH SHOP	JIB CRANES/PWR	
3305077	TCER	222 822	2 JIB CRANE W/1 TON HOIS	T RRDGET	N/A MACH SHOP	JIB CRANES/PWR	
			JIB CRANE ELECT 1 TON		820700-PIPE-COMB SHOP	JIB CRANES/PWR	
			JIB CRANE ELECT 1 TON		820700-PIPE-COMB SHOP	JIB CRANES/PWR	
			JIB CRANE ELECT 1 TON		820700-PIPE-COMB SHOP	JIB CRANES/PWR	
	TCWB		JIB CRANE ELECT 1 TON		820700-PIPE-COMB SHOP	JIB CRANES/PWR	
	TCWB		JIB CRANE ELECT 1 TON		820700-PIPE-COMB SHOP	JIB CRANES/PWR	
	TCWB		JIB CRANE ELECT 1 TON		820700-PIPE-COMB SHOP	JIB CRANES/PWR	
			JIB CRANE ELECT 1 TON		820700-PIPE-COMB SHOP	JIB CRANES/PWR	
	T C WB		JIB CRANE ELECT 1 TON		820700-PIPE-COMB SHOP	JIB CRANES/PWR	
			I JIB CRANE ELECT 1 TON		820700-PIPE-COMB SHOP		
	TCWB					JIB CRANES/PWR	
	TCWB		JIB CRANE ELECT 1 TON		820700-PIPE-COMB SHOP	JIB CRANES/PWR	
	TCWB		JIB CRANE ELECT 1 TON		820700-PIPE-COMB SHOP	JIB CRANES/PWR	
	T C WB		JIB CRANE ELECT 1 TON		820700-PIPE-COMB SHOP	JIB CRANES/PWR	
3305112	T C WB	191 831	I JIB CRANE ELECT 1 TON	P&H 1A1	82-700-PIPE-COMB SHOP	JIB CRANES/PWR	

SSET TRK E/W	LOC . MANUFACTURERS SERIAL LOCATION	CATEGORY
JMBER CEO	CDE C/C EQUIP DESCRIPTION NAME NO. DESCRIPTION	DESCRIPTION CARN
3305113 T C WB	191 831 JIB CRANE ELECT 1 TON P&H 1A1 820700-PIPE-COMB SHOP	JIB CRANES/PWR
3305114 T C WB	191 831 JIB CRANE ELECT 1 TON P&H 1A1 820700-PIPE-COMB SHOP	JIB CRANES/PWR
3305115 T C EB	235 890 2 TON ELECT WALL MTD P YALE 606P 882-AK1FAB SHOP	JIB CRANES/PWR
3305116 T C EB	235 890 3 TON ELECT PEDESTAL P DETROIT HOIST & J-26-2 FAB SHOP	JIB CRANES/PWR
3305117 T C EB	235 890 3 TON ELECT PEDESTAL P DETROIT HOIST & J26-3 FAB SHOP	JIB CRANES/PWR
3305118 T C EB	235 890 .5 TON JIB (NO HOIST) P YALE N/A FAB SHOP	JIB CRANES/PWR
3305119 T C EB	235 890 1 TON JIB (NO HOIST) P YALE N/A FAB SHOP	JIB CRANES/PWR
3305120 T C EB	•	JIB CRANES/PWR
3305121 T C EB	240 890 .5 TON ELECT WALL MTD PYALE BUDGET/P&H 610848 PIPE SHOP	JIB CRANES/PWR
	240 890 1 TON ELECT WALL MTD P YALE BUDGET/P&H 610852 PIPE SHOP	JIB CRANES/PWR
3305123 T C EB	240 890 1 TON ELECT WALL MID P YALE BUDGET/P&H 610851 PIPE SHOP	JIB CRANES/PWR
3305124 T C EB		JIB CRANES/PWR
3305125 T C EB	240 890 1 TON ELECT WALL MTD P YALE BUDGET/P&H 610855 PIPE SHOP	JIB CRANES/PWR
3305127 T C WB	100 602 JIB CRANE N/A PENDING INFON/A MAIBLDG & AREA -WB	JIB CRANE, ELECT.
	104 813 15'JIB (HOIST 3311-047 HANDLING SYS 840991-FAB SHOP	JIB CRANE, ELECT.
	104 813 18'JIB (HOIST 3311-046 HANDLING SYS 840991-FAB SHOP	JIB CRANE, ELECT.
	131 601 18'-1 (HOIST 3311-049 YALE*351-H N/A PLANT ENGR BLDG	JIB CRANE, ELECT.
	191 831 JIB CRANE, .5 TON ELECT DESHAZO*1,000# 4605-4 PIPE-COMB SHOP	JIB CRANE, ELECT.
3305138 T C WB	·	JIB CRANE, ELECT.
	191 831 JIB CRANE, .5 TON ELECT DESHAZO*1,000# 4605-6 PIPE-COMB SHOP	JIB CRANE, ELECT.
	191 831 JIB CRANE, .5 TON ELECT DESHAZO*1,000# 4605-7 PIPE-COMB SHOP	JIB CRANE, ELECT.
3305141 T C WB	• • • • • • • • • • • • • • • • • • • •	JIB CRANE, ELECT.
3305142 T C WB	191 831 JIB CRANE, .5 TON ELECT DESHAZO*1,000# 4605-9 PIPE-COMB SHOP	JIB CRANE, ELECT.
3305143 T C WB	·	JIB CRANE, ELECT.
3305144 T C WB	191 831 JIB CRANE, .5 TON ELECT DESHAZO*1,000# 4605-2 PIPE-COMB SHOP	JIB CRANE, ELECT.
3305145 T C WB 3305146 T C WB	191 831 JIB CRANE, .5 TON ELECT DESHAZO*1,000# 4605-3 PIPE-COMB SHOP	JIB CRANE, ELECT.
3305146 T C WB	104 813 2 TON ELECT WALL MTD GORBEL G2808 FAB SHOP	JIB CRANE, ELECT.
3306001 X C WB		JIB CRANE, ELECT. JIB CRANE
	191 827 JIB CRANE CHAIN 1 TON ABELL HOWE CO. 73-B-40PIPE-COMB SHOP	JIB CRANE
3306002 T C WB		JIB CRANE
	191 827 JIB CRANE CHAIN ABELL HOWE CO. 73B4046PIPE-COMB SHOP	JIB CRANE
	191 827 JIB CRANE CHAIN ABELL HOWE CO. COMB.PIPIPE-COMB SHOP	JIB CRANE 2879R
	131 602 JIB CRANE CHAIN 1 TON YALE/BUDGET N/A MAINT/FACIL BLD	JIB CRANE
	131 602 JIB CRANE CHAIN 2 TON YALE/BUDGET N/A MAINT/FACIL BLD	JIB CRANE
3306008 T C WB	131 602 JIB CRANE CHAIN 2 TON YALE/BUDGET N/A MAINT/FACIL BLD	JIB CRANE
3306009 T C WB	131 602 JIB CRANE CHAIN 2 TON N/A N/A MAINT/FACIL BLD	JIB CRANE
3306010 T C WB		JIB CRANE
3306011 T C WB		JIB CRANE
3306012 T C WB		JIB CRANE
3306013 T C WB	128 827 JIB CRANE CHAIN 1 TON YALE N/A COMBINE SHOP	JIB CRANE
3306014 T C WB	128 827 JIB CRANE CHAIN 1 TON YALE/BUDGET N/A COMBINE SHOP	JIB CRANE
3306015 T C WB	128 827 JIB CRANE CHAIN 1 TON YALE/BUDGET N/A COMBINE SHOP	JIB CRANE
3306016 T C WB	128 827 JIB CRANE CHAIN 1 TON YALE/BUDGET N/A COMBINE SHOP	JIB CRANE
3306017 T C WB	128 827 JIB CRANE CHAIN 1 TON YALE 016 COMBINE SHOP	JIB CRANE
3306018 T C WB	128 827 JIB CRANE CHAIN 1 TON YALE 015 COMBINE SHOP	JIB CRANE
3306019 T C EB	221 822 JIB CRANE CHAIN 1 TON YALE N/A MACH ASSY	JIB CRANE
3306020 T C EB	221 822 JIB CRANE CHAIN 1 TON YALE N/A MACH ASSY	JIB CRANE
3306021 T C EB	221 822 JIB CRANE CHAIN YALE N/A MACH ASSY	JIB CRANE

	ASSET	TRK E/W	LOC							LOCATION			
	NUMBER	CEO	CDE	C/C	EQUIP DESC				NO.	DESCRIPTION		RIPTION	CARN
1			•••	•••									
•					JIB CRANE				N/A	MACH SHOP		CRANE	
					JIB CRANE					MAINT-DEP/E-SHP		CRANE	
	-				JIB CRANE					MAINT-DEP/E-SHP		CRANE CRANE	IIPDR
					JIB CRANE					PIPE SHOP		CRANE	IIPDR
								YALE/BUDGET YALE		PIPE SHOP		CRANE	IIPDR
					JIB CRANE			YALE		PIPE SHOP		CRANE	IIPDR
								YALE		PIPE SHOP		CRANE	
								YALE		PIPE SHOP		CRANE	IIPDR
								YALE		PIPE SHOP		CRANE	IIPDR
								YALE		PIPE SHOP		CRANE	IIPDR
								YALE		PIPE SHOP	JIB (CRANE	IIPDR
								YALE		PIPE SHOP	JIB	CRANE	IIPDR
					JIB CRANE					PIPE SHOP	JIB	CRANE	1 IPDR
					JIB CRANE			YALE	N/A	PIPE SHOP	JIB	CRANE	IIPDR
					JIB CRANE				N/A	PIPE SHOP	JIB	CRANE	IIPDR
	3306038	T C EB	240	831	JIB CRANE	CHAIN	1 TON		N/A	PIPE SHOP	JIB	CRANE	IIPDR
	3306039	T C EB	240	831	JIB CRANE	CHAIN	1 TON	YALE	N/A	PIPE SHOP	JIB	CRANE	IIPDR
	3306040	T C EB	240	831	JIB CRANE	CHAIN	1 TON	YALE	N/A	PIPE SHOP	JIB	CRANE	IIPDR
					JIB CRANE					PIPE SHOP	JIB	CRANE	IIPDR
								YALE		PIPE SHOP	JIB	CRANE	IIPDR
								YALE		PIPE SHOP	JIB	CRANE	IIPDR
								YALE		PIPE SHOP		CRANE	IIPDR
								YALE		PIPE SHOP		CRANE	IIPDR
								YALE		PIPE SHOP		CRANE	IIPDR
•								CYCLONE		#12A WHSE		CRANE	
					JIB CRANE					LEAD SHOP		CRANE	****
					JIB CRANE					SHEETMTL SHOP		CRANE	IIPDR
					JIB CRANE					MAINT/FACIL BLD		CRANE CRANE	IIPDR IIPDR
					JIB CRANE					SHEETMTL SHOP		CRANE	IIPDR
					JIB CRANE					SHEETMTL SHOP		CRANE	IIPDR
					JIB CRANE				N/A	SHEETMTL SHOP		CRANE	IIPDRR
					JIB CRANE CHAIN PED			YALE	CF-66	X-RAY LAB	•••	CRANE	111000
					CHAIN PED			YALE	CF-85	FAB SHOP		CRANE	IIPDR
								ONYALE KELI/210L3				CRANE	
								ONYALE KELI/210L3				CRANE	
								ON ABELL HOWE CO.				CRANE	
					1 TON (NO			YALE		PIPE SHOP		CRANE	
					1 TON (NO			YALE		PIPE SHOP		CRANE	
					0.5 TON (YALE/BUDGET		PIPE SHOP	JIB	CRANE	
					0.5 TON (YALE/BUDGET		PIPE SHOP	JIB	CRANE	
•					1 TON (NO			YALE/BUDGET	N/A	PIPE SHOP	JIB	CRANE	
					1 TON (NO			YALE/BUDGET	N/A	PIPE SHOP	JIB	CRANE	
					1 TON (NO			YALE BUDGET SP		PIPE SHOP	JIB	CRANE	
					1 TON (NO			YALE BUDGET SP		PIPE SHOP	JIB	CRANE	
					0.5 TON (YALE BUDGET SP		PIPE SHOP	JIB	CRANE	
					0.5 TON (YALE/BUDGET		SHEETMTL SHOP	JIB	CRANE	
					1 TON (NC			YALE/BUDGET	N/A	SHEETMTL SHOP	JIB	CRANE	

ASSET NUMBER	CEO	CDE		EQUIP DESCRIPTION	NAME	NO.	LOCATION DESCRIPTION	CATEGORY DESCRIPTION	CARN
		•••	•••	***************************************	•••••			•••••••••••••••••••••••••••••••••••••••	
				1 TON (NO HOIST)			SHEETMTL SHOP	JIB CRANE	
				1 TON (NO HOIST)			SHEETHTL SHOP	JIB CRANE	
				1 TON (NO HOIST)			SHEETMTL SHOP	JIB CRANE	
				0.5 TON (NO HOIST)			PIPE SHOP	JIB CRANE	
3306075	T C EB	240	890	0.5 TON (NO HOIST)	YALE	N/A	PIPE SHOP	JIB CRANE	
3306076	TCEB	240	890	0.5 TON (NO HOIST)	YALE	N/A	PIPE SHOP	JIB CRANE	
3306077	'T C FR	240	890	0.5 TON (NO HOTST)	YALF	N/A	PIPE SHOP	JIB CRANE	
3306078	TCEB	240	890	0.5 TON (NO HOIST)	YALE	N/A	PIPE SHOP	JIB CRANE	
3306079	TCEB	240	890	0.5 TON (NO HOIST) 0.5 TON (NO HOIST) 1.5 TON (NO HOIST) 1 TON WALL MTD 1 TON WALL MTD	YALE	N/A	PIPE SHOP	JIB CRANE	
3306088	TCEB	231	890	1.5 TON (NO HOIST)	YALE	N/A	SHEETHTL SHOP	JIB CRANE	
3306089	TCEB	235	890	1 TON WALL MTD	YALE SP	N/A	FAB SHOP	JIB CRANE	
3306090	TCEB	235	890	1 TON WALL MTD	YALE	N/A	FAB SHOP	JIB CRANE	
				0.5 TON WALL MTD (N/H)			SHEETMTL SHOP	JIB CRANE	
				0.5 TON WALL MTD (N/H)			SHEETMTL SHOP	JIB CRANE	
				1 TON WALL MTD (N/H)			SHEETMTL SHOP	JIB CRANE	
				2 TON WALL MOUNTED			PIPE-COMB SHOP	JIB CRANE, MANUAL	
				CAT GEN COLL CHG NO			BLDG & AREA -WB	MONO RAILS/POWER	
				MONORAIL ELECT. 2 TON			GALV/TEF BLDG.	MONO RAILS/POWER	
			_	MONORAIL PHUEMATIC			GALV/TEF BLDG.	MONO RAILS/POWER	
					N/A		BOTH EB/WB YD	MONO RAILS/POWER	
				MONORAIL CRANE ELECT			MAINT/FACIL BLD	MONO RAILS/POWER	3004R
				MONORAIL ELECT 1 TON			TOOL STORAGE	MONO RAILS/POWER	
3307007	XCWB	704	602	N/A	N/A		FAB SHOP	MONO RAILS/POWER	3004R
				MONORAIL ELECT 3 TON		N/A		MONO RAILS/POWER	
				MONORAIL ELECT 5 TON				MONO RAILS/POWER	
				MONORAIL ELECT 5 TON				MONO RAILS/POWER	
•				MONORAIL ELECT 0.5 TON				MONO RAILS/POWER	
				MONORAIL ELECT 5 TON	•			MONO RAILS/POWER	3004R
				MONORAIL ELECT 2 TON		-	ELEC SHOP	MONO RAILS/POWER	
				MONORAIL ELECT 2 TON	ROBINS & MEYERS			MONO RAILS/POWER	
				MONORAIL ELECT 5 TON MONORAIL ELECT 3 TON	ROBINS & MEYERS YALE		MAINT DEP/E SHP	MONO RAILS/POWER	
					YALE		PIPE SHOP	MONO RAILS/POWER	
				MONORAIL ELECT 1 TON				MONO RAILS/POWER MONO RAILS/POWER	
								MONO RAILS/POWER	
	XCEB			MONORAIL ELECT 3 TON	WRIGHT WUG		#12A WHSE	MONO RAILS/POWER	
				MONORAIL ELEC 1.5 TON	YALE		#12A WHSE	MONO RAILS/POWER	
				MONORAIL ELECT 1 TON	ROBBINS & MEYER			MONO RAILS/POWER	
				MONORAIL ELECT 2 TON	WRIGHT		#12 WHSE	MONO RAILS/POWER	
				MONORAIL ELECT 2 TON	WRIGHT	•	#12 WHSE	MONO RAILS/POWER	
				MONORAIL ELECT 2 TON	YALE		#11 WHSE	MONO RAILS/POWER	
				MONORAIL ELECT 1 TON	YALE/BUDGET		#11 WHSE	MONO RAILS/POWER	
				MONORAIL ELECT 1 TON	YALE/BUDGET		#11 WHSE	MONO RAILS/POWER	
				MONORAIL ELECT 1 TON	ROBBINS & MEYER		#10 WHSE	MONO RAILS/POWER	
				MONORAIL PNEUMATIC	N/A	_	OUT CRAFTS BLDG	MONO RAILS/POWER	
				MONORAIL ELECT 1 TON	PEERLESS		4,4A,5&6 WHSE	MONO RAILS/POWER	
				MONORAIL ELEC 0.5 TON			FAB SHOP	MONO RAILS/POWER	
	2 X C EB			MONORAIL ELECT 2 TON	YALE		MACH ASSY	MONO RAILS/POWER	
				MONORAIL PNEUMATIC			MAINT, GARAGE	MONO RAILS/POWER	

ASSET	TRK E/W	LOC		MANUFACTURERS	SERIAL	LOCATION	CATEGORY	
NUMBER	CEO	CDE C/C	EQUIP DESCRIPTION	NAME	NO.	DESCRIPTION	DESCRIPTION	CARN
			***************************************	•••••		• • • • • • • • • • • • • • • • • • • •		• • • • • •
			MONORAIL ELECT 1 TON					
			MONORAIL ELECT 1 TON				MONO RAILS/POWER	
3307036	X C EB	250 601	MONORAIL ELECT 1 TON	WRIGHT	E32609	SORB	MONO RAILS/POWER	
3307037	X C WB	128 827	MONORAIL ELET 7 000000	ROBBINS & MEYER	S45898V(DCOMBINE SHOP	MONO RAILS/POWER	
3307038	X C WB	128 827	MONORAIL ELECT 3 TON	COFFING HOIST C	ougs2053	SCOMBINE SHOP	MONO RAILS/POWER	
3307039	X C EB	277 601	HOIST WIRE ROPE 2 TON	YALE AW217987	N/A	#12A WHSE	MONO RAILS/POWER	
3307040	X C EB	236 843	HOIST 2 TON	WRIGHT	2008 27	TELEC SHOP	MONO RAILS/POWER	
3307041	X C EB	274 405	MONORAIL ELECT 5 TON	INDUSTRIAL CRAN	E274 EL4	4#10 A WHSE	MONO RAILS/POWER	
3307042	X C EB	275 405	MONORAIL ELECT 1 TON	YALE/BUDGET	EL 33	#11 WHSE	MOND RAILS/POWER	
3307043	X C EB	275 405	MONORAIL ELECT 1 TON	YALE/BUDGET	EL 11	#11 WHSE	MONO RAILS/POWER	
3307044	X C WB	104 430	ELECTRIC HOIST 1 TON	YALE FBIE56WT21	N/A	FAB SHOP	MONO RAILS/POWER	
3307045	X C EB	215 807	MONORAIL ELECT 2 TON	COFFING WDMT-45	782-3-6	GGALV/TEF BLDG.	MONO RAILS/POWER	
3307046	X C EB	213 602	MONORAIL POWER 3 TON	YALE	N/A	SAND BLAST FAC	MONO RAILS/POWER	
3307047	T C WB	2 601	MONORAIL ELECT 2 TON	P&H MOD.4A214-4	611053	WELDING LAB	MONO RAILS/POWER	
3307048	X C WB	192 825	MONORAIL ELECT 5 TON	ROBBINS & MEYER	S44808M	FSHEEMTL-COMB SH	MONO RAILS/POWER	
3307049	X C EB	238 890	0.5 TON AIR HOIST	BUDGET 311562-1	6903911	LEAD SHOP	MONO RAILS/POWER	
3307050	T C WB	130 851	MONORAIL ELECT 0.5 TON	ACCO	BB5	ALUM FAB SHOP	MONO RAIL, ELECT	
3307051	T C WB	130 851	MONORAIL ELECT 0.5 TON	ACCO	888	ALUM FAB SHOP	MONO RAIL, ELECT	
3307052	T C WB	130 851	MONORAIL ELECT 0.5 TON	I ACCO	BC9	ALUM FAB SHOP	MONO RAIL, ELECT	
3307053	T C WB	130 851	MONORAIL ELECT 0.5 TO	ACCO	BC10	ALUM FAB SHOP	MONO RAIL, ELECT	
			2 MONORAIL CHAIN 3 TON		N/A	SAND BLAST FAC	MONO RAILS/CHAIN	
			MONORAIL CHAIN	YALE	N/A	WELDING SCH.	MONO RAILS/CHAIN	
3308003	X C EB	218 602	2 MONORAIL CHAIN 1 TON	YALE		MAINT. GARAGE	MONO RAILS/CHAIN	
3308004	X C EB	218 602	2 MONORAIL CHAIN 0.5 TO	YALE		MAINT. GARAGE	MONO RAILS/CHAIN	
3308005	X C WB	0 0	UNASSIGNED	N/A		BOTH EB/WB YD	MONO RAILS/CHAIN	
				YALE/BUDGET		MACH ASSY	MONO RAILS/CHAIN	
			2 MONORAIL CHAIN 2 TON	P&H		MACH ASSY	MONO RAILS/CHAIN	
			2 MONORAIL CHAIN 1 TON	YALE		MACH ASSY	MONO RAILS/CHAIN	
		_	2 MONORAIL CHAIN 1 TON	YALE	N/A	MACH ASSY	MONO RAILS/CHAIN	
			2 MONORAIL CHAIN 2 TON			MACH ASSY	MONO RAILS/CHAIN	
			2 MONORAIL CHAIN 2 TON	YALE		MACH ASSY	MONO RAILS/CHAIN	
			2 MONORAIL CHAIN 2 TON	P&H	-	MACH ASSY	MONO RAILS/CHAIN	
			2 MONORAIL CHAIN 2 TON	P&H	-	MACH ASSY	MONO RAILS/CHAIN	
			2 MONORAIL CHAIN 1.5 TO		•	MACH ASSY	MONO RAILS/CHAIN	
			2 MONORAIL CHAIN 1 TON	YALE	-	MACH ASSY	MONO RAILS/CHAIN	
			2 MONORAIL CHAIN 3 TON	P&H	•	MACH ASSY	MONO RAILS/CHAIN	
	X C EB		2 MONORAIL CHAIN 1.5 TO			MACH ASSY	MONO RAILS/CHAIN	
3308018			2 MONORAIL CHAIN 2 TON	P&H		MACH ASSY	MONO RAILS/CHAIN	
	X C EB		2 MONORAIL CHAIN 1.5 TO			MACH SHOP	MONO RAILS/CHAIN	
	X C EB		2 MONORAIL CHAIN 3 TON	YALE		MACH SHOP	MONO RAILS/CHAIN	
	X C EB		2 MONORAIL CHAIN 1.5 TO			MACH SHOP	MONO RAILS/CHAIN	
3308021			2 MONORAIL CHAIN 2 TON	YALE		MACH SHOP	MONO RAILS/CHAIN	
3308022			2 MONORAIL CHAIN 1 TON	YALE		MACH SHOP	MONO RAILS/CHAIN	
			2 MONORAIL CHAIN 1.5 TO					
3308024					-	MACH SHOP	MONO RAILS/CHAIN	
3308025			2 MONORAIL CHAIN 1.5 TON			MACH SHOP	MONO RAILS/CHAIN	
3308026			2 MONORAIL CHAIN 1 TON	YALE		MACH SHOP	MONO RAILS/CHAIN	
3308027			2 MONORAIL CHAIN 1 TON	YALE		MAINT DEP/E SHP	MONO RAILS/CHAIN	
3308028			2 MONORAIL CHAIN 1 TON	YALE		MAINT DEP/E SHP	MONO RAILS/CHAIN	
3308029	X C EB	227 602	2 MONORAIL CHAIN 0.5 TO	YALE/BUDGET	N/A	MAINT DEP/E SHP	MONO RAILS/CHAIN	1

SSET TRK E/W	LOC		MANUFACTURERS	SERIAL LOCATION	CATEGORY
UMBER CEO		C EQUIP DESCRIPTION		NO. DESCRIPTION	
3308030 X C EB	227 60	2 MONORAIL CHAIN 0.5 TON	YALE	N/A MAINT DEP/E SHP	MONO RAILS/CHAIN
3308031 X C EB	227 60	2 MONORAIL CHAIN 5 TON	YALE	N/A MAINT DEP/E SHP	MONO RAILS/CHAIN
		2 MONORAIL CHAIN 1 TON			MONO RAILS/CHAIN
		3 MONORAIL CHAIN 5 TON			MONO RAILS/CHAIN
		3 MONORAIL CHAIN 2 TON			
		3 MONORAIL CHAIN 0.5 TON			•
		1 MONORAIL CHAIN 1 TON			MONO RAILS/CHAIN
		1 MONORAIL CHAIN 1 TON			
		1 MONORAIL CHAIN 1 TON			
		1 MONORAIL CHAIN 2 TON			
		1 MONORAIL CHAIN 2 TON			
3308041 X C EB	240 83	1 MONORAIL CHAIN 1.5 TON	YALE	N/A PIPE SHOP	
3308042 X C EB	240 83	1 MONORAIL CHAIN 1 TON	YALE	N/A PIPE SHOP	MONO RAILS/CHAIN
		1 MONORAIL CHAIN 2 TON			MONO RAILS/CHAIN
3308044 X C EB	240 83	1 MONORAIL CHAIN 10 TON	YALE/BUDGET		MONO RAILS/CHAIN
3308045 X C EB	240 83	S1 MONORAIL CHAIN 1.5 TON	YALE		MONO RAILS/CHAIN
				N/A PIPE SHOP	MONO RAILS/CHAIN
3308047 X C EB	240 83	31 MONORAIL CHAIN 1 TON	YALE/BUDGET		MONO RAILS/CHAIN
3308048 X C EB	240 60	1 MONORAIL CHAIN 2 TON	CYCLONE		MONO RAILS/CHAIN
3308049 X C EB	277 60	1 MONORAIL CHAIN 1 TON	YALE		MONO RAILS/CHAIN
3308050 X C EB	244 60	D2 MONORAIL CHAIN 0.5 TON PO 2 TON CHAIN	YALE	N/A MAINT ANX/STOR	MONO RAILS/CHAIN
					MONO RAILS/CHAIN
		51 VACU LIFT 3 TON			VACUUM LIFT
		51 VACU LIFT 3 TON			VACUUM LIFT
	130 8	51 VACU LIFT	ANVER CORP.	N/A ALUM FAB SHOP	VACUUM LIFT
3309004 T C WB		51 VACU LIFT			VACUUM LIFT
		22 HYDR. CRANE 2 TON			_
	_)2 HYDR. CRANE 1 TON			
3310003 T C WB		17 HYD CRANE 11/2 TON ELE 34 HYDR. CRANE 1 TON			PORTABLE CRANE
					PORTABLE CRANE PORTABLE CRANE
3310003 T C EB	272 8	27 HYDR. CRANE TON 27 HYDR. CRANE TON	PIIGEP 55	1 F266164 48 586 WHSE	PORTABLE CRANE
3310000 T C EB	272 8	27 HYDR. CRANE TON	PHOSE 55	1 F266174 48 586 WHSE	PORTABLE CRANE
3310007 T C EB	272 8	27 HYDR. CRANE TON	RUGER 55	1 F266184 44 586 WHSE	PORTABLE CRANE
3310009 T C EB	272 8	27 HYDR. CRANE TON	RUGER 55	LF266194,4A,5&6 WHSE	PORTABLE CRANE
3310010 T C EB		27 HYDR. CRANE TON		LF266204,4A,5&6 WHSE	PORTABLE CRANE
3310011 T E EB		90 HYDRAULIC CRANE 0.5 TO		· ·	
3311002 T C EB		31 ELECT HOIST 1 TON		613815 PIPE-COMB SHOP	HOIST/ELET&MANUAL
3311003 T C EB		31 ELECT HOIST 1 TON		613816 PIPE-COMB SHOP	HOIST/ELET&MANUAL
3311004 T C EB		31 ELECT HOIST 1 TON		613817 PIPE-COMB SHOP	HOIST/ELET&MANUAL
3311005 T C EB		31 ELECT HOIST 1 TON		613818 PIPE-COMB SHOP	HOIST/ELET&MANUAL
3311006 T C EB		31 ELECT HOIST 1 TON		613819 PIPE-COMB SHOP	HOIST/ELET&MANUAL
3311007 T C EB		31 ELECT HOIST 1 TON		613820 PIPE-COMB SHOP	HOIST/ELET&MANUAL
3311008 T C EB		31 ELECT HOIST 1 TON		613821 PIPE-COMB SHOP	HOIST/ELET&MANUAL
3311009 T C EB		31 ELECT HOIST 1 TON		613822 PIPE-COMB SHOP	HOIST/ELET&MANUAL
3311010 T C EB		31 ELECT HOIST 1 TON		613823 PIPE-COMB SHOP	HOIST/ELET&MANUAL
3311011 T C EB		31 ELECT HOIST 1 TON		613824 PIPE-COMB SHOP	HOIST/ELET&MANUAL
3311012 T C WB		31 ELECT HOIST 1 TON		613825 PIPE-COMB SHOP	HOIST/ELET&MANUAL
•		31 ELECT HOIST 1 TON		613826 PIPE-COMB SHOP	HOIST/ELET&MANUAL
					,

ASSET NUMBER	TRK E/W		c/c	FOLLTP	DESCRIPTION	MANUFACTURERS NAME	SERIAL NO.	LOCATION DESCRIPTION	CATEGORY DESCRIPTION	CARN
NUMBER			•						***********	••••
					HOIST 1 TON			PIPE-COMB SHOP	HOIST/ELET&MANUAL	
					HOIST 1 TON			PIPE-COMB SHOP	HOIST/ELET&MANUAL	
					HOIST 1 TON			PIPE-COMB SHOP	HOIST/ELET&MANUAL	
					HOIST 1 TON			PIPE-COMB SHOP	HOIST/ELET&MANUAL	
					HOIST 1 TON			PIPE-COMB SHOP	HOIST/ELET&MANUAL	
					HOIST 1 TON			PIPE-COMB SHOP	HOIST/ELET&MANUAL	
					HOIST 1 TON			PIPE-COMB SHOP	HOIST/ELET&MANUAL	
					HOIST 1 TON			PIPE-COMB SHOP	HOIST/ELET&MANUAL	
					HOIST 1 TON			PIPE-COMB SHOP	HOIST/ELET&MANUAL	
					HOIST 1 TON			PIPE-COMB SHOP	HOIST/ELET&MANUAL	
					HOIST 1 TON			PIPE-COMB SHOP	HOIST/ELET&MANUAL	
					HOIST 1 TON			PIPE-COMB SHOP	HOIST/ELET&MANUAL	
3311026	T C WB	191	831	ELECT	HOIST 1 TON	P & H MOD.1A1	613839	PIPE-COMB SHOP	HOIST/ELET&MANUAL	
3311027	T C WB	191	831	ELECT	HOIST 1 TON	P & H MOD.1A1	613840	PIPE-COMB SHOP	HOIST/ELET&MANUAL	
3311028	T C WB	191	831	ELECT	HOIST 1 TON	P & H MOD.1A1	613841	PIPE-COMB SHOP	HOIST/ELET&MANUAL	
3311029	T C WB	191	831	ELECT	HOIST 1 TON	P & H MOD.1A1	613842	PIPE-COMB SHOP	HOIST/ELET&MANUAL	
3311041	T C WB	154	815	ELECT	HOIST 1 TON	P&HHEVILIFT 2C4	1614107	SUB ASSY BAY 1	HOIST/ELET&MANUAL	
3311042	T C EB	246	890	ELECT	HOIST 3 TON	CABLE KING 606P	AR-140	OUT CRAFTS BLDG	HOIST/ELET&MANUAL	
3311043	T C EB	224	807	ELECT	HOIST 2 TON	P&H MOD. 2A2	61498	ANNEALIGN FURN	HOIST/ELET&MANUAL	
3311044	T C WB	131	602	ELECT	HOIST 2 TON	YALE KEL2-12R15	5109938	-PLANT ENGR BLDG	HOIST/ELET&MANUAL	
3311045	T E WB	131	602	ELECT	HOIST 2 TON	BEEBE L3D2CLS	0757-10	OPLANT ENGR BLDG	HOIST/ELET&MANUAL	
3311046	T E WB	104	813	ELECT	HOIST 1 TON	ROBBINS & MYERS	148107	PFAB SHOP	HOIST/ELET&MANUAL	
3311047	TCWB	104	813	ELECT	HOIST 1 TON	ROBBINS & MYERS	148107	PFAB SHOP	HOIST/ELET&MANUAL	
3311048	TCWB	158	815	ELECT	HOIST 1 TON	P&HHEVILIFT 2C4	1614305	SUB ASSY BAY 5	HOIST/ELET&MANUAL	
3311049	TCWB	131	601	ELECT	HOIST 2 TON	YALE*2-10LG15	191106	-PLANT ENGR BLDG	HOIST/ELET&MANUAL	
3311053	T C WB	100	602	ELECT	HOIST 2 TON	ABEL HOWE (S.SI	DNA (PENI	DBLDG & AREA -WB	HOIST/ELET&MANUAL	
3311054	T C WB	191	831	ELECT	HOIST 2 TON	ROBBINS &MYERS	152451	SPIPE-COMB SHOP	HOIST/ELET&MANUAL	
3311055	T C WB	191	831	ELECT	HOIST 1 TON	DUFF NORTON	N/A(MO	OPIPE-COMB SHOP	HOIST/ELET&MANUAL	
3311056	TCWB	191	831	ELECT	HOIST 1 TON	DUFF NORTON	N/A(MO	DPIPE-COMB SHOP	HOIST/ELET&MANUAL	•
3311057	TCWB	191	831	ELECT	HOIST 1 TON	DUFF NORTON	N/A(MO	DPIPE-COMB SHOP	HOIST/ELET&MANUAL	
		191	831	ELECT	HOIST 1 TON			DPIPE-COMB SHOP	HOIST/ELET&MANUAL	•
	TCWB				HOIST 1 TON			DPIPE-COMB SHOP	HOIST/ELET&MANUAL	
	TCWB				HOIST 1 TON			DPIPE-COMB SHOP	HOIST/ELET&MANUAL	
	T C WB				HOIST 1 TON			DPIPE-COMB SHOP	HOIST/ELET&MANUAL	
	TCWB				HOIST 1 TON			DPIPE-COMB SHOP	HOIST/ELET&MANUAL	
	TCWB				HOIST 1 TON			DPIPE-COMB SHOP	HOIST/ELET&MANUAL	
	TEWB			-	HOIST 2 TON	ROBBINS & MYERS			HOIST/ELET&MANUAL	
	T C EB				MONORAIL HOIST	ROBBINS & MYERS			HOIST/ELET&MANUAL	
	TCWB				HOIST 1 TON	YALE*LELI-10RT1			HOIST/ELET&MANUAL	
	TCWB				HOIST 1 TON	YALE*LELI-10RT1			HOIST/ELET&MANUAL	
	TCWB				HOIST 2 TON	ROBBLI&MYERS121			HOIST/ELET&MANUAL	
3311069	TCWB	104	813	ELECT	HOIST 2 TON	ROBBLI&MYERS121	8155015	TFAB SHOP	HOIST/ELET&MANUAL	•

APPENDIX A2

1	Co	mp Truc ode Forkl	ks Tr ift P	ucks latfm	Side	Trucks Rough Terrain	Rails	Cranes Fixed Bridge	Jib	Cranes Locom	Modite	MODILE	Cranes Mobile Industria Truck	HODIEC	Cranes Traveling Bridge	Traveling	Cranes Truci
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40 41 ^y		38 Y		У		У											
40 41 ^y																У	
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42																	
		42							,								

omp ode	Trucks 1 Forklift	Platfm	Side	Trucks Rough Terrain	Rails	Cranes Fixed Bridge	Cranes Jib	Locom	Mobile	Mobile		Mobile	Cranes Travelin Bridge	gTraveling	Cranes J Truck
43			••••••		· ·	· • • • • • • • • • • • • • •	*****	• • • • • • • •	••••••		• • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	•••••	• • • • • • • • •	•••••
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MATERIAL HANDLING EQUIPMENT MANUFACTURING COMPANY LIST

Code	Forklift	Trucks t Platfm	Trucks Side Load	Rough Terrain	Rails	Fixed Bridge	Jib	Locom	Mobile	Mobile Gantry	Industria Truck	Mobile Truck		gTraveling Gantry	Cranes Truc
85	Υ		у		•••••										
86				У											
87		y		У											
88					У	У	У						У		
89					У	У	У						У	У	
90													У		
91 92							У								
93						у	у						У	у	
94						,	,				у	У	•	•	у
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125								у			у	У			y
126					v	v		,			,	,	у	y	•
120					У	У							,	,	

•	Trucks Forklift		Side	Rough Terrain	Rails	Fixed Bridge	Jib	Locom	Mobile Crawler	Mobile Gantry	Industria Truck	Mobile Truck	Travelin Bridge	gTraveling Gantry	
 27					• • • • • • •		у					• • • • • • • • • • • • • • • • • • • •		•••••	• • • • • • •
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40											у				
41							У								
42						у	у			У					
43	Y		у												
44	Y		У												
45	Υ											у		У	у
46													у		
47														у	
48															у
149	Y	y		у											
150	Y	У													
151						у	у						у	у	
152	Y	У	У								У	у			
153							У			Y			у	у	
154													у	у	
155							У						У	У	
156	Υ														
157						У	у						У	У	
158		y												•	
159															
160		y		у											
161		Y													
162															
163							У								
164										y	У				
165														у	
166															
167					У								у		
168					У	У	У			У			У	У	

•	Trucks Forklift			Trucks Rough Terrain	Rails		Jib	Cranes Locom	Mobile	Mobile	Cranes Mobile Industri Truck	Mobile		Cranes ngTravelin Gantry	Crane: g Tru
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170		у					•						•	•	
171		•				У			у				У		у
172						у							у	У	
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174	Y		у					У							
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176	Y														
177						У	У						У	У	
178	Y	у		У											
179	Y					У							У	У	
180	Y	у													
181						У							У	y	У

Code	Companies	Telephone	Address

1 A	abeli-Howe co.	(312)366-4800	7747 W. Van Buren St. Forset Park, IL 60130
2 A	acco Chain & Lifting Products Div. Babco	c(717)741-4965	
3 A	Accutech Systems	(714)963-2508	18350 Ward St. Ffountain Valley, CA 92708
4 a	ckett Systems Inc.		
5 A	Acme Marine Hoist	(615)472-3030	690 Montauk Hwy. Bayport, LI 11705
6 A	Nero-Go, Inc.	(206)575-3344	1170 Andover Park West Seattle, WA 98188
7 A	Air Technical Industries	(216)951-5191	7501 Clover Avenue Mentor OH 44060
. 8 A	Allied Systems	(503)625-2560	13985 S.W. Tualatin-Sherwood Rd. Sherwood, OR97140
9 A	American Crane & Equipment Corp.	(215)385-6061	605 Old Swede Rd. DouglassVille, Pa 19518
10 A	American Monorail	(612)478-6011	3839 County Road 116 Hamel, MN 55340
11 A	American MonorailAnchor Crane & Hoist Se	ervice Co.	
12 A	Anchor Crane & Hoist Service Co.	(214)438-5100	2020 East Grauwyler St. Irving, TX 75061
13 A	Arrow Engineering Sales Company	(612)478-6337	3839 County Rd. 116 Hamel, MN 55340
14 A	ASEA Inc.		
15 A	Atlantic Track & Turnout Co.	(201)748-5885	Box 1589 Bloomfield, NJ 07003
16 /	Aurora systems Inc.	(716)827-8911	P.O. Box 709 Buffalo, NY 14240
17 /	Auto Specialties Manuacturing co. Brake	D(616)926-0842	2303 Pipestone Road Benton Harbor, MI 49022-8787
	Automation Equipment Company	(314)349-5200	548 Axminister St. Louis, MO 63026-2904
	Babcock Industries Inc. Material Handlir	ng(800)342-2226	12755 East Nine Mile Rd Warren, MI 48089
20 E	Baker Material Handling Cor.	(800)627-1700	2450 West 5th North Street Summerville, SC 29483
21 8	Ballagh & Thrall Inc.		610 Sentry Parkway Blue Bell, PA 19422
22 F	Barrett INdustrial Trucks, Inc.	(815)568- <i>6</i> 525	240 North Prospect St. Marengo, IL 60152
	Battery Handling Systems Inc.	(314)423-7091	Box 28990 St. Louis, MO 63132
24 (Baumann Handling Systems, Inc.	(312)553 <i>-77</i> 55	1208 Badger St. Yorkville, IL 60560
	Benju Corp.	(717)762-2144	Benju Drive, P.O. Box 427 Waynesboro, PA 17268
	Blue Giant Equipment corp.	(205)884-1500	One Industrial Park Drive Pell City, AL 35125
27 (Broderson Manufacturing Corp.	(913)888-0606	Box 14770 Lenexa, KS 66215
	Buckeye Gas Products Co.	(800)331-5393	7130 S. Lewis Tulsa, OK 68012
	Bucyres-Erie co.	(414)768-4119	Box 56 South Milwaukee, WI 53172
	Burro Crane, Inc.	(312)521-9200	1300 S. Kibourn Chicage, IL 60623
	Bushman Equipment Inc.	(414)462-4380	4200 W. Douglas Ave. Miwaukee, WI 53209
	B.E. Wallace Products Corp.		
	Caterpillar Industrial Inc.	(800)323-0550	5960 Heisley Road Mentor, OH 44060
	Caterpillar Lift Trucks Townotor Corp. S		7800 Tyler Blvd. Mentor, OH 44060
	Central Manufacturing/Shuttlewagon	(913)422-7124	20101 W. 55th Shawnee, KS 66218
	Champ Corp.	(818)444-9561	2439 N. Rosemead Blvd. P.O. Box 3637 EI Monte, CA 91733
	Char-Nor Enterprises	(309)787-2427	P.O. Box 980 Milan, IL 61264
	Clark Material systems Techonlogy Co.	(606)288-1200	333 West Vine St. Lexington, Ky 40507-1640
	Cleco Systems	(609)825-2200	Box 829-South 12th St. Milville, NJ 08332
	Clyde Co. AMCA international corp.	(414)784-5800	P.O. Box 312 Milwaukee, WI 53201
41 (Coleman Equipment, Inc.	(201)375-6000	525 Chancellor Avenue Irvington, NJ 07111

Comp

42 Columbus McKinnon Corp.

(716)689-5400 Audubon and Sylvan Parkways Amherst, NY 14228

Сопр	•		
Code	Companies	Telephone	Address
43	Crane Manufacturing & Service Corp.	(414)769-8162	6000 So. Buckhorn Ave. Cudahy, WI 53110
44	Crown Lift Trucks	(419)629-2311	40-44 S. Washington St. New Bremen, OH 45869
45	Custom INdustries, Inc.	(919)299-2885	6106 W. Market St. Greensboro, NC 27409
46	C. Itoh Industrial Machinery, Inc./TCM		
47	Dahmer Fork Lift Ltd.	(519)742-1811	31 Shirly Ave., P.O. Box 460 Kitchener, ON N2G-4A6 Canada
48	Deal Products	(215)258-6244	1315 Peach St. P.O. Box 3280 Easton, PA 18042
49	Dearborn Fabricating and Engineering Co.	(313)273-2800	19440 Glendale Ave. Detroit, MI 48223
50	Deere & Co.	(309)752-8000	John Deere Rd. Moline, IL 61265
51	Detroit Hoist & Crane Company	(313)268-2600	Box 686 Warren, MI 48090
52	Downs Crane & Hoist Co., Inc.	(213)589-6061	8827 S. Juniper St. Los Angeles, CA 90002
53	Drexel Industries, Inc.	(215)672-2200	Box 248 Horsham, PA 19044
54	Dynamic Industries, Inc.	(800)346-4858	P.O. Box 249 Barnesville, MN 56514
55	D.W.Zimmerman Manufacturing., Inc.		
56	Ederer Inc.	(206)622-4421	2925 First Ave. South, P.O. Box 24708 Seattle, WA 98124
57	Elwell-Parker Electric Co.	(216)881-6200	4205 St. Clair Ave. Cleveland, OH 44103
58	ENERPAC	(414)781-6600	13000 W. Silver Spring Dr. Butler, WI 53007
59	Engineered Crane Systems of America South	h(404)442-0777	2000 McFarland/400 blvd. Alpharetta, GA 30201
60	Equipment Co. of America (ECOA)	(305)887-1772	1075 Hialeah Dr. Hialeah, FL 33010
61	Erickson corp.	(612)454-4300	3045 Highway 13 St. Paul, MN 55121
62	Feterl Mfg. Co.	(605)425-2206	411 West Center Avenue Salem, SD 58058
63	GEHL company IC Group	(414)338-7541	143 Water St. West Bend, WI 53095
64	Giant Lift Equipment Manufacturing co.,	(603)964-5127	136 Lafayette Rd. North Hampton, NH 03862
65	Global Equipment Co.	(516)485-1000	63 Hemlock Dr. Hempstead, NY 11550
66	Gorbel, Inc.	(716)377-2260	80 O'Connor Rd. Fairport, NY 14450
67	Gradall Company	(216)339-2211	406 Mill Ave. SW New Philadelphia, OH 44663
68	Gregory Industrial Trucks	(201)471-8003	457 River Rd., P.O. Box 906 Clifton, NJ 07014-0906
69	Grove ManufacturingCo., Inc.	(717)597-8121	Box 21 Shady Grove, PA 17256
70	Handling Systems Inc.	(312)352-1213	408 E. Cossit Ave. La Grange, IL 60525
71	Handling Technology Inc.	(716)377-7111	80 O'connor Rd. Fairport, NY 14450
72	Harlo Products corp.	(616)538-0550	4210 Ferry St. Grandville, MI 49418
73	Harnischfeger Corp.	(414)671-4400	Box 554 Milwaukee, WI 53201
74	Harrington Hoist	(717)665-2000	401 West End Ave. Manheim, PA 17545
75	Hatco International	(717)246-3666	Lombard Road Red Lion, PA 17356
76	Heco-Pacific Manufacturing Inc.	(415)487-1155	1510 Pacific St. Union City, CA 94587
77	HEHL Company IC group		
78	Hercules Industries Div. of Dozier Equip	m(615)259-3308	2933 Armory Dr. Nashville, TN 37204
79	Hertz Equipment rental Corp.	(201)428-6833	-3 Entin Rd. Parsippany, NJ 07054
80	HIAB Cranes & Loaders Inc.	(302)328-5100	258 Quigley Blvd. New Castle, DE 19702
81	Hi-Lift Trucks A Division Of Electrolux	constructor Ltd.	Unit 2, Gibbons Industrial Park Kingsford, West Midlands,
82	Hovair Systems, Inc.	(206)575-3306	1210 Andover Park E. Seattle, WA 98188
83	Hubtex of North America Inc.	(803)583-8128	380 Wingo Heights Rd. Spartanburg, SC 29301
84	Hydrolectric Lift Trucks, Inc.	(513)382-6917	370 Davids Dr., P.O. Box 768 Wilmington, OH 45177
	•		- · ·

Code	_	Telephone	Address

85	Hyster Co	(217)443-7000	Box 847 Danville, IL 61834-0847
86	Hyster company construction Equipment Div	v(309)853-3571	2000 Kentville Rd. Kewanee, IL 61443
87	Hyster Company Industrial Truck Div.	(217)443-7000	Box 847 Danville, IL 61834-0847
88	Idea Engineering & Fabricating Inc.	(313)834-8000	13881 Elmira Detroit, MI 48227
89	Industrial Crane & Equipment Co., Inc.	(312)378-0100	4701 W. Iowa St. Chicago, IL 60651
90	Ingersoll-rand Material Handling Product	s(206)624-0466	2724 6th Ave. South Seattle, WA 98134-2102
91	Interlake Packaging	(312)535-3100	4225 Frontage Rd. Oak Forest, IL 60452
92	J I Case Co.		
93	John T. Hepburn, Ltd. Mechanical Div.		
94	J.L.G. Industries Inc.	(717)485-5161	JLG Drive McConnellsburg, PA 17233
95	Kalamazoo Manufacturing co.	(616)685-9851	320 North Acorn St. Plainwell, MI 49080
96	Kalmar-AC Handling Systems, Inc.	(614)878-0885	777 Manor Park Drive Columbus, OH 43228
97	Komatsu forklifts (USA), Inc.	(213)802-1312	14815 Firestone Blvd. La Mirada, CA 90637
98	Kornylak corp.	(513)863-1277	400 Heaton St. Hamiton, OH 45011
99	Kranco, Inc.	(713)466-7541	Box 40400 Houston, TX 77240
100	K-D Manitou, Inc.	(800)433-3304	Box 4547 Waco, TX 76705
101	Lansing Inc.	(716)832-7209	P.O. Box 4467, 15060 Farm Creek Drive Woodbridge, kVA 22104-446
102	Lead Industries Association, Inc.	(212)578-4750	292 Madison Ave. New York, NY 10017
103	Lift Tech International Crane & Hoist Op	e(616)733-0821	414 W. Broadway Muskegon, MI 49443
104	Lion Mfg. Co.	(702)359-3500	10 Greg Street Sparks, NV 89431
105	LISTA International corp.	(617)429-1350	106 Lowland St. Holliston, MA 01746
106	Lull Corp.	(612)454-4300	3045 Hwy. 13 St. Paul, MN 55121
107	Machinery distribution, Inc. Mitsubishi	F(713)675-6000	247 McCarty Drive Houston TX 77029
	Machinery Distribution, Inc.Nissan Indus		·
109	Mannesmann Demag Material Handling Div.	(216)248-2400	Box 39245 Cleveland (Solon), OH 44139
110	Marathon LeTourneau co. Heavy Equiptment	(214)236-6500	Box 2307 Longview, TX 75606
111	Master Craft Industrial Equipment Corp.	(912)386-0610	Route 2, Box 573 Tifton GA 31794
112	Materials Transportation Company	(800)433-3110	P.O. Box 1358 Temple, TX 76503-1990
	Mercury Division Pettibone corp.	(312)772-9300	4700 W. Division St. Chicago, IL 60651
114	Milwaukee Crane & Equipment Co.	(503)639-8892	10250 S.W. North Dakota St. Tigard, OR 97223
	MI-Jack Products		
	Morgan Engineering AMCA Systems Inc., Un	i (216)823-6130	947 East Broadway Alliance, OH 44601
	Nissan Industrial Equipment Co.	(901)396-5170	2900 Datsum Dr., P.O. Box 161404 Memphis TN 38116
	Nordskog Electric Vehicles	(714)793-2891	1981 W. Redlands Blvd. Redlands, CA 92373
	Northern Engineering Corp.	(313)259-3280	210 Chene St. Detroit, MI 48207
	Northwest Engineering Company	(414)435-5321	201 W. Walnut St., P.O. Box 1009 Green Bay, WI 54305
	Orley Meyer, Inc.	(414)782-1810	2550 S. 170th St. New Berlin, WI 53151
	Overhead Crane & Service corp.	(313)941-3600	35171 Crane Rd. Romulus, MI 48174
	Paceco Inc. A Sub. of Fruehauff	(601)896-1010	P.O. Box 3400 Gulfport, MS 39505
	Peerless Div. Lear Siegler, Inc.	(503)639-6131	Box 447 Tualatin, OR 97062
	Pettibone corp.	(312)772-9300	4700 W. Division St. Chicago, IL 60651
126	Philadelphia tramrail Co. Overhead Crane	(215)533-5100	2207 E. Ontario St. Philadelphia, PA 19134

Сотр

Comp		
Code Companies	Telephone	Address
127 Diament comm	(517)321-0200	2150 Apollo Drive Lansing, IM 48906
127 Planet corp.		Bell & High Sts. Plymouth, OH 44865
128 Plymouth Locomotive Works Inc		Hwy. 61 N., Box 879 Muscatine, IA 52761
129 Prime-Mover Co.	(319)263-1761	4203 Landmark Dr. Orlando, FL 32817
130 Professional Materials Handli	- ·	355 Sanford St. Pontiac, NI 48058
131 Pro-Fab-Co.	(313)332-7400	Box 2110 Olathe, KS 66061
132 R O Corp.	(913)782-1200	
133 Railglide Systems, Ind.	(313)238-2440	P.O. Box 6295 Flint, MI 48506
134 Rampmaster Incorporated	(305)569-9600	9825 Osceola Blvd. Vero Beach, FL 32960
135 Raymond corp.	(800)235-7200	South Canal St. Greene, NY 13778
136 Reading crane & Engineering c		1200 High St. Box 759 Pottstown, PA 19464
137 Renner Smith Manufacturing	(414)461-3200	P.O. Box 10375 Milwaukee, WI 53210
138 Revolvator Industrial Truck D		457 River Rd. Clifton, NJ 07014-0906
139 Ridge Tool Company Subsidiary		400 Clark St. Elyria, OH 44036
140 Roach &Associates, Inc.	(707)433-8202	211 Exchange Ave. Healdsburg, CA 95448
141 Robbins & Myers Hoist Div. KC		1311 Lagonda Ave. Springfield, OH 45503
142 Roll Rite corp.	(415)638-9305	421 Pendelton Way, Box 2107 Oakland, CA 94621
143 Royal engineering company	(609)396-4506	330 Pennington Ave. Trenton, NJ 08618
144 Royal Industrial Storage Sys	stems (803)547-5931	Atkins Center P.O. Box 2844 Spartanburg, SC 29304
145 Ruger Equipment Inc.	(614)922-3000	615 W. Fourth St. Uhrichsville, OH 44683
146 R. Stahl, Inc.		
147 Sackett Systems Inc.	(312)766-6600	1033 Bryn Mawr Ave. Bensenville, IL 60106
148 Sasgen derrick	(312)638-0800	3101 W. Grand Ave. Chicago, IL 60622
149 Schaeff Inc.	(712)944-5111	E. on Hwy. 20, Box 1917 Sioux City, IA 51102
150 Sellick Equipment Limited	(519)738-2255	358 Erie St. N., Box 1000 Harrow, ON NOR-1GO, Canada
151 Shepard Niles Inc.	(607)535-7111	250 N. Genesee St. Montour Falls, NY 14865
152 Silent Hoist & Crane Co.	(718)238-2525	841-877 63rd St. Brooklyn, NY 11220
153 Spanco Inc.	(215)269-2080	4102 Edges Mill Rd. Downingtown, PA 19335
154 Spanmaster Div. Jervis B Web	co. (216)933-6166	739 Moore Rd. Avon Lake, OH 44012
155 Stanspec Corp.	(216)451-9800	13610 Deise Ave. Cleveland, OH 44110
156 Steinbock GmbH Professional R	Materials Han(305)677-0040	4203 Landmark Dr. P.O. Box 14098-A Ortando, FL 32817
157 Stewart MHC	(214)578-8090	2512 Summit suite 306 Plano, TX 75074
158 Stokvis Multiton Corp.	(516)822-7400	520 W. John St. Hicksville, NY 11801
159 Systems Products corp.	(312)738-2623	2323 W. 18th St. Chicago, IL 60608
160 Taylor Machine Works, Inc.	(601)773-3421	Box 150 Louisville, MS 39339
161 taylor-dunn Manufacturing Co	mpany (714)956-4040	Box 4240-M Anaheim, CA 92803
162 TCM America (MBK) Inc.	(609)467-3200	Box 429 Bridgeport, NJ 08014
163 Techniflow Corp.	(201)375-4800	525 Chancellor Ave. Irvington, NJ 07111
164 Thern Inc.	(507)454-2 99 6	Box 347 Winona, MN 55987
165 Total Transportation systems	, Inc. (804)595-5153	Box 6127, 813 forrest Dr. Newport News, VA 23606
166 Toyota Industrial Equipment	(213)618-5064	19001 S. Western Ave. Torrance, CA 90509
167 Twin City Monorail, Inc.	(612)478-6565	3839 county Rd. 116 Hamel, MN 55340
168 Unified Industries, Inc.	(517)546-3220	1033 Sutton St. Howell, MI 48843
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69 United States Monorail corp.	(617)482-8383	1234 Washington St. Boston, MA 02118
70 United Tractor Company	(219)926-1186	116 N. 15th St. chesterton, IN 46304
71 U.S. Crane, Inc.	(407)859-6000	P.O. Box 13290 Orlando, FL 32859
72 Vangard Enterprises, Inc.	(804)599-5300	12256 Warwick Blvd., P.O. Box 6054 Newport News, VA 23606
73 VME Americas Inc.	(216)383-3000	23001 Euclid Ave. Cleveland, OH 44117-8017
74 Voss equipment, Inc.	(312)568-1000	15241 S. Commercial St. Harvey, IL 60426
75 West Bend Equipment Corp.	(414)334-5561	515 Schoenhaar Cr., Box 497 West Bend, WI 53095
76 White Lift Truck Parts & Mfg. Co. Inc.	(612)424-3880	8600 Jefferson Highway Osseo, MN 55369
77 Whiting Corp.	(312)468-9400	15700 Lathrop Ave. Harvey, IL 60426
78 Wiggins Lift co.	(805)485-7821	2571 Cortex St. Oxnard, CA 93030
79 Wilde Engineering & Sales, Inc.	(616)834-5696	P.O. Box 106 Bailey, MI 49303
80 Yale Materials Handling corp.	(201)788-3100	Routes 523 & 31 Flemington, NJ 08822
81 Zenar Corp.	(414)764-1800	7301 S. 6th St. Oak Creek, WI 53154

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